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A RECORD OF

CONTRIBUTIONS

FROM THE

NATIONAL HERBARIUM

UNION OF SOUTH AFRICA

PRETORIA

Vol. V

EDITED BY

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Botbalia

THE SOUTH AFRICAN FUNGI AND LICHENS

TO THE END OF 1945

BY

ETHEL M. DOIDGE, M.A., D.Sc.,
FORMERLY PRINCIPAL PLANT PATHOLOGIST

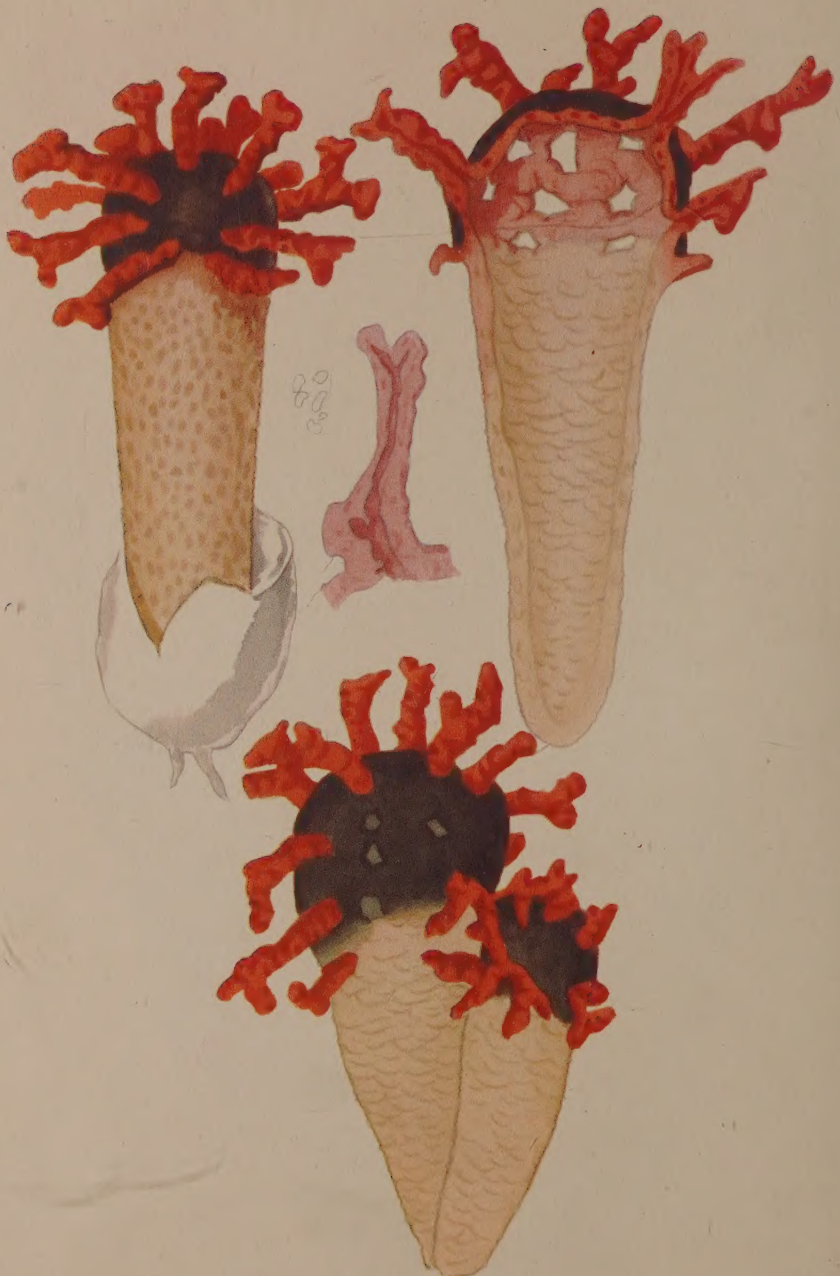

Plate 1.—(Frontispiece)

Kalchbrennera corallocephala (Welw. & Curr.) Kalchbr. (after Kalchbrenner).

PREFACE.

Dr. Ethel Doidge has asked me to write a short preface to this valuable piece of work which she has just completed.

It is indeed a pleasure to do so for two reasons. Firstly it gives me a very welcome opportunity to pay tribute to a former colleague, who has carried out for many years excellent and most painstaking work in a field of science that is all too little known to, and still less appreciated by the general public in this country. I refer, naturally, to the study of our African fungi and their many important bearings on both plant and animal life throughout the continent. Dr. Doidge took up this study more than 35 years ago. She has made her impress on it and has left a record of it for which younger workers in years to come will never cease to thank her.

Secondly I must refer very briefly to the subject itself. The foundation of a fungus herbarium was laid in Pretoria in 1906, and, largely owing to the loyal co-operation of early colleagues, had grown by 1916 into a collection of over 4,400 specimens. Dr. Doidge's share in this work has been mentioned, her chief contribution being to the ascomycetes and rusts. The late Dr. P. A. van der Byl, who later built up a second herbarium at Stellenbosch, became interested in the Polyporaceae in the indigenous forests and collected a large number of specimens. Miss Bottomley, whose main interest has been in the Gasteromycetes and in fungi parasitic on plants of economic value, has been in charge of the herbarium almost since its inception ; under her care it has grown to a collection of over 35,000 specimens of which a large proportion is fungi of southern and tropical Africa.

When it is realised that by far the greater part of southern Africa experiences a semi-arid to arid climate, and that the humid and semi-humid portions have been comparatively little worked over for the collection of fungi, it will be appreciated what a vast field of study still awaits those who are to follow on.

The recent work by Fleming and his co-workers on the genus *Penicillium* opens up an entirely new world in the study of fungi and one that may lead to still greater benefits to mankind.

When the mycologist succeeds in unravelling the secrets of the fungi cultivated in the fungus gardens so characteristic of the termite mounds throughout semi-arid and arid Africa, perhaps this will then reveal the reasons that lie hidden in man's failure to maintain successfully the fertility of the cropland in the semi-humid and semi-arid climates.

The field for research in Mycology in this country is thus immense, but this Science rarely appeals to the average Administrator under whom much of the work usually falls. Its progress, therefore, must naturally be slow and far from encouraging. However, there are still some labourers in the field of Science whose only thought and ambition is to advance the knowledge of their particular subject for the general benefit of mankind, and in this Dr. Doidge has certainly succeeded. She has tirelessly paved the way and truly laid the foundation on which Mycology in Southern Africa will be built. Great things no doubt will come from the further study of African fungi and more that is new from Africa will still arrive, but come what may, future workers in this field will rightly appraise the value of Dr. Doidge's work.

I trust, therefore, that no time will be lost in publishing this work, so that it may become available not only to workers in Africa but also to mycologists in other parts of the world.

Irene, I. B. POLE EVANS.

12*th November*, 1945.

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I.—INTRODUCTION.

In his preface to the Fungi of Manitoba (by Bisby, Buller and Dearness, 1929) Sir Edwin Butler wrote " Knowledge of the fungus flora of a region appears to me to be the foundation of all mycological work in that region, applied as well as pure ; but it is not to be gained in a few months, even in the older countries where most of the fungi have already been collected and named."

Over forty years have passed since the appointment in 1905 of I. B. Pole Evans as mycologist in the Transvaal Department of Agriculture, and the beginning of the serious study of mycology in South Africa. At that time there were no collections of fungi in the country except those of MacOwan and Medley Wood, consisting of some 765 specimens, housed in herbaria at Grahamstown, Cape Town and Durban (Pole Evans, 1916). Dr. Pole Evans laid the foundation of a national collection of fungi at Pretoria, and with the assistance of members of his staff some hundreds of specimens of fungi on indigenous and exotic plants were prepared ; MacOwan's collection at Grahamstown was acquired by purchase and Dr. Medley Wood presented his fungi to the Government ; these collections were incorporated in the cryptogamic herbarium at Pretoria, which now contains over 35,000 specimens of fungi, of which a large proportion is from southern and tropical Africa. The lichens are not so well represented ; only some 2,200 numbers are registered, few of the African specimens having been named.

At Stellenbosch, Dr. P. A. van der Byl's collections of fungi and lichens were bequeathed to the University and have been housed there in the Department of Botany since his death in 1939. A second fungus herbarium developed in the Department of Plant Pathology of the Stellenbosch-Elsenburg College of Agriculture under the direction of Dr. Len Verwoerd and with the assistance of his colleagues.

There is also a considerable number of fungi, including many of MacOwan's specimens in the herbarium of the South African Museum, Cape Town. Unfortunately there is no complete set of the fungi of Stellenbosch and Knysna found by Dr. A. V. Duthie, these being scattered in several herbaria, but her Myxomycetes are in the Bolus Herbarium, University of Cape Town ; they are under the care of Mr. S. Garside, who has a very considerable private collection of lichens. Miss E. L. Stephens is responsible for a valuable collection of the larger fungi, chiefly from the south-western Cape, which is housed in the museum of the University of Cape Town.

In the mycological section of the Timber Research Laboratory, Johannesburg, maintained by the Transvaal Chamber of Mines, it was reported in 1940 that about 1,460 organisms had been collected and over 1,000 cultured (Mrs. R. Brown) including not only fungi found underground, but a number from timber in storage and from plantations, or cultivated from spores caught in agar plates exposed to air currents in mines.

In Southern Rhodesia, the collections of fungi started by F. Eyles were built up in the Department of Agriculture, Salisbury by Dr. J. C. F. Hopkins, who published a list of Rhodesian fungi in 1938.

In September, 1939, an opportunity was afforded of listing South African fungi in the Kew Herbarium. At the time it was not possible to record fungi and lichens in the herbarium of the British Museum, from which types had already been sent away to a place of safety. Obviously it was not possible then to search European herbaria for South African collections, nor, during the years 1939–1945, to discover by correspondence what South African fungi and lichens were to be found on the continent of Europe. Some information on this subject has been gleaned from published records, but data are necessarily incomplete.

No comprehensive list of South African fungi and lichens has been published. At the end of 1945, which is the limit of the period covered by this record, the senior mycologists associated with the Cryptogamic section of the National Herbarium at Pretoria are on the eve of severing their official connection with that institution. Owing to the disturbed conditions during the years 1939–1945, when many South Africans volunteered for military service, there will be a gap of some years before younger mycologists will be ready to take up the work. It is a suitable moment, therefore, for the compilation of a record of the South

African species and of the literature concerning them, for the use of future workers. It is hoped that the account in the following pages will be of use, not only to students of systematic mycology, but to phytopathologists charged with the study of the cause and prevention of diseases of plants in southern Africa.

Scope of the Work.

The aim of this compilation is to assemble all available information about the fungi and lichens which are known to occur in southern Africa or which have been recorded as occurring in the sub-continent, to record the hosts or substrata on which they are found, to indicate as far as possible their distribution and the publications in which reference to South African species has been made.

The Myxomycetes and lichens are included, and the peculiar difficulties encountered in connection with the lichen records are set forth in the section on groups of fungi and lichens.

Literature.

The earlier literature on South African fungi consists of a number of scattered references and some short papers in European publications. Even in later years it was found necessary, owing to the absence of authentically named specimens in South African herbaria, to send fungi to Europe to be named. Fungi were sent by Dr. Pole Evans to P. Hennings, H. and P. Sydow and others, and later many of the larger fungi were identified by C. G. Lloyd. A few mycological papers appeared in the Transactions of the Royal Society of South Africa and since the initiation of "Bothalia" in 1921, work on fungi in the Pretoria herbarium has been published in that journal. The Annals of the University of Stellenbosch handled work done by van der Byl and his colleagues and the lichens were sent to Zahlbruckner, Wainio and others, who published many descriptions of new species.

Owing to the foresight and initiative of Dr. I. B. Pole Evans, a fair mycological library exists in Pretoria, but there are many inevitable gaps, especially in the older literature; for example, no set of "Flora" is available in the country and references to South African species in that publication could not be verified; in listing the lichens, the absence of the Lichenologische Beiträge of J. Müller (Arg.) published in "Flora" was particularly unfortunate.

In the bibliography all publications have been listed in which references to fungi and collected in southern Africa have been traced, and these have been verified wherever possible. Reference to original descriptions of species first described from other countries has been omitted.

Acknowledgments.

In making a compilation such as this, it is impossible to rely on the unaided efforts of a single individual, and help has been sought from many other workers.

To Miss A. M. Bottomley, for many years in charge of the cryptogamic section of the National Herbarium, Pretoria, the author is indebted for generous help throughout the work and in particular for assistance with the Basidiomycetes and for listing the fungi in the South African Museum, Cape Town.

Thanks are due to the Director, Royal Botanic Gardens, Kew for permission to examine the fungus collections in the herbarium for South African fungi, and Miss E. M. Wakefield has given much valuable assistance. Grateful thanks are also due to the Director and Staff of the Imperial Mycological Institute for identifications and for photostatic copies of a number of publications.

Appropriate acknowledgments for help with identification of fungi and hosts and for assistance in other ways will be found in succeeding chapters.

For transcribing the lists of fungi and lichens in Burchell's "Catalogus Geographicus" and for her attempts to trace the fungi and lichens which Burchell collected, tribute must be

paid to Mrs. Helen McKay, who pursued this quest with the enthusiasm inspired in her by anything connected with that explorer.

Miss M. Gunn, Librarian of the Division of Botany and Plant Pathology, has been consistently helpful in tracing references and obtaining books on loan from other libraries; she has lent books from her private library and allowed the use of her own notes on the early botanical explorers. Many interesting historical details have come to light through her unstinted effort.

Members of the staff of the National Herbarium, both in the phanerogamic and cryptogamic sections have been extremely helpful, and the author wishes particularly to acknowledge the assistance of Misses Edwina Phillips and Eunice Scott who carried out the laborious task of verifying the herbarium records quoted.

II.—NATURAL FEATURES AND VEGETATION.

Southern Africa, for the purposes of this record, includes the temperate and subtropical regions of the southern part of the continent. In the absence of any suitable political or natural boundary, it is necessary to set an arbitrary limit to the area included, and this has been fixed at the 15th parallel of south latitude, a line running approximately from Mossamedes on the west coast to Moçambique on the east coast. The whole area under consideration therefore lies between the 15th and the 35th parallel of south latitude; it is bounded on the east by the Indian Ocean and the Moçambique channel and on the west by the Atlantic Ocean. The island of Madagascar has not been included.

The area is vast, covering over 1,500,000 square miles and including the Union of South Africa (472,550 square miles), Basutoland (11,716 square miles), Swaziland (6,704 square miles), Bechuanaland Protectorate (275,000 square miles), South West Africa (322,450 square miles), Southern Rhodesia (150,344 square miles) and the greater part of Moçambique (283,800 square miles). The part of Moçambique territory lying north of the town of Moçambique is excluded, but the southern part of the Nyasaland Protectorate and of Northern Rhodesia and the provinces of Mossamedes, Huila and Cubango in Angola fall within the limits fixed.

Topography and Climate.

(Rogers and Haughton, 1940: 16–23. Schumann, 1940: 37–55.)

Southern Africa, on the whole, is a high-lying country. The interior is a great plateau with an altitude of 3,000 to 5,000 feet above sea level, a large part being within the 4,000 feet contour. It is a region of great plains from which rise flat-topped hills of irregular plan. This plateau is divided by a well marked escarpment from the diversified tract of country lying between the escarpment and the ocean.

The escarpment which separates the two regions consists of a number of mountain ranges: The Drakensberg or Lebombo Mountains of the Transvaal, the Drakensberg of Natal and the Transkei, the Stormberg of the north-eastern Cape, the Sneeuwberg, Nieuweveld, Komsberg, Roggeveld and Kamiesberg farther south and east. It is continued northward under less well known names to beyond the Cunene River. To the north-east, with an interruption for the basins of the Limpopo and Sabi Rivers, there is a belt of high ground along the eastern border of Southern Rhodesia, including the Chimanimani Mountains, the Udzi Mountains and the Inyanga Mountains, of which the highest point is Inyangeni Mountain, 8,250 feet above sea level, 48 miles north of Umtali. Mont-aux-Sources, the highest point in the sub-continent, where Natal, the Orange Free State and Basutoland meet, is 11,170 feet above sea level.

The presence of ocean currents has a very considerable influence on climate, particularly along the coastal belt. The west coast of southern Africa is washed by the cold Benguella current, which produces important climatic effects from Cape Town almost to the Equator; on the west coast, much of which is an almost rainless desert, there is, because of this current, a cool and foggy seabord. The warm Moçambique current flows down the east coast, where

conditions form a striking contrast to those on the west coast, but it is only on the coast of Zululand, the lower part of the Limpopo and Sabi basins and in Moçambique that anything approaching true tropical conditions is found.

The average annual rainfall varies from under 5 inches to 50–75 inches. It is greatest in the east where the highest rainfall known is in some of the mountainous areas ; for example, the Amatola Mountains in the south-east Cape average 70·2 inches on 150 days and in some years have over 100 inches, and the Pietersburg district in the northern Transvaal, where the Woodbush Forest Station shows an average of 71·97 inches falling on 138 days. In Southern Rhodesia the heaviest rainfall is along the eastern border. The driest areas, with less than 5 inches rainfall per annum, are found along the west coast and in the western basin of the Orange River. The Namib of South West Africa is the only true desert, with an average rainfall, at Port Nolloth, of 2·17 inches on 17 days.

A comparatively narrow strip of country at the south-west extremity of the continent is a region of winter rainfall, and adjacent to this, restricted to a narrow belt on the south coast, is a zone where rain falls at any time of the year. Elsewhere the greater part of the precipitation is in summer and often occurs with thunderstorms, not infrequently accompanied by hail ; during these storms falls of 2-4 inches in a day are common.

Owing largely to its plateau structure, the mean annual temperature over the greater part of the Union is extraordinarily uniform. Frost occurs in winter over practically the whole of the interior, but its incidence diminishes gradually from the central Transvaal northwards towards the Limpopo valley which is free from frost ; this frost-free condition also obtains in the Low Veld of the Transvaal and in a narrow belt right round the coast of the sub-continent. The warmest parts of the Union are in the deep valleys of the Orange River and of the Olifants River on the west coast and of the Tugela, Komati and other rivers to the east.

Natural Vegetation.

In a vast country with elevation varying from sea level to 11,000 feet, rainfall from less than 5 inches to 75 inches or more, and considerable though less extreme variation in temperature, it is to be expected that the vegetation will be varied in character.

A study of the topography of South Africa has shown that the regions recognised by the topographer form a satisfactory basis for the division of the country into plant regions. The phanerogamic flora is one of the most important factors in the distribution of fungi. and a brief characterization of the plant regions will not be out of place here. For greater detail and many excellent photographs illustrating the character of the vegetation of the different regions, reference may be made to the work of Dr. Pole Evans (1917, 1920, 1936) and that of Dr. R. S. Adamson (1938).

The plant regions are indicated in Map No. 1, which is adapted from Dr. Pole Evans' Vegetation Map of South Africa (1936) and I am indebted to Dr. R. A. Dyer for the following summary made from that publication.

An Outline of the Vegetation of South Africa.

The natural vegetation of the Union consists of Forest, Parkland, Grassland and Desert Shrub.

Forest occupies a very small proportion of the country ; in fact the indigenous timber forests do not cover more than 778,000 acres. They are restricted chiefly to the region of constant rainfall in the south and to the seaward slopes and deep kloofs of the southern and eastern escarpments.

Parkland vegetation covers the central and north-eastern portion of the subcontinent. Thornbush characterizes the central portion, while evergreen and deciduous trees are one of the main features of the north-eastern portion.

Grassland covers the eastern portion of the Union. Between the great escarpment and the coast tall grass dominates ; on the rolling plains of the high veld short grass is the feature

of the landscape ; whilst to the west, in the lower and warmer country known as middle veld, a much more mixed and varied type of grassland occurs.

Desert Shrub covers a large portion of the western half of South Africa. Perennial succulents and woody shrubs largely compose this desert vegetation, but annual herbs and grasses may also periodically dominate the vegetation in certain parts.

Forest.

Three main types may be distinguished :—

(1) Evergreen and deciduous bush and subtropical forest.

(2) Temperate evergreen forests.

(3) Evergreen sclerophyllous bush.

(1) Evergreen and Deciduous Bush and Subtropical Forest.

Stretching from East London northwards along the coast is a narrow belt of dense vegetation which has a more distinctly tropical character than that seen elsewhere in South Africa. The vegetation includes mangrove swamps, palm belts, thorn thickets, stream bank bush and evergreen forests. It is a region of drowned valleys and sandy, bush-covered dunes. The altitude varies from sea level to 800 feet. It is a frostless region and experiences a summer rainfall of from 30–50 inches. The farther north one proceeds the more tropical the vegetation becomes, both in general appearance and in the actual trees, shrubs and other plants found. Mangroves increase in intensity and importance northwards, while palms and arborescent Strelitzias characterize the vegetation which often forms an impenetrable bush.

Lianes and climbing plants form a very conspicuous feature of the bush, and in its shade it harbours a dense growth of shade-loving plants. The forests, which bear a distinctly tropical impress, have been very largely exploited and many of them, especially in Natal and Zululand, have almost entirely disappeared with the cultivation of sugar cane.

(2) Temperate Evergreen Forests.

The true timber forests are found only in coastal and inland sites in southern, south-eastern and eastern portions of South Africa. They are usually situated on the eastern and south-eastern aspects of the mountain ranges extending from the Cape to the Transvaal, and occur where the annual rainfall varies from 35–70 inches and more. The most extensive forests are found in the neighbourhood of Knysna and George, on the Elandsberg and on the Amatola Mountains in the neighbourhood of Kingwilliamstown, in the neighbourhood of Port St. Johns and in the Woodbush Mountains of the Transvaal. Between these centres there are many isolated patches of forest both along the eastern escarpment and along the coast. Nearly all these forests have suffered very severely from the hand of man, and had it not been for State protection little of the indigenous forests would be remaining today. Many have already been entirely destroyed in the southern portion of the Cape and in the Cape Peninsula.

The chief components of the forests are the coniferous " yellow-woods ", *Podocarpus* spp., which frequently attain a height of 100 to 150 feet. They yield valuable timber which is used for structural and other purposes. Associated with the " yellow-woods " are a great variety of broad-leaved, evergreen trees. These increase in number of species the farther north the forests extend, and at the same time become more tropical in character.

In the south-western part of the Cape occur the " cedar " forests of South Africa, composed of *Widdringtonia juniperoides*. They can hardly be termed true forests, as the trees seldom form a close canopy, but occur mainly in isolated formation on the slopes of the Cedarberg Mountains. These trees yield a light, soft, durable timber, which is regarded one of the most valuable in the country.

(3) Evergreen Sclerophyllous Bush.

This covers an angular strip of country stretching roughly from the Olifants River on the west coast to Port Elizabeth on the south. On the north it is bounded by the Cape mountain ranges. The country on the whole is mountainous and includes many wide open valleys. The vegetation is composed mainly of bush or scrub, in which small leathery leaves are the predominating feature. It is commonly known as *sclerophyllous* vegetation. The general aspect of the vegetation has a remarkable uniformity and is of a characteristic dull grey-green colour. The region is essentially one with a winter rainfall and a hot dry summer. The absence of grassland in the general landscape is a noteworthy feature, although there is dispersed throughout the bush and scrub a large number of different species of grasses. The rainfall averages about 30 inches, but in several of the mountainous parts it exceeds this and may even reach 100 inches.

The seashore with its sand dunes, the sandy flats, the inland valleys and plains, vleis and mountain slopes, all bear their own characteristic vegetation.

Throughout the region the dominating families are the Proteaceae, Ericaceae, Restionaceae and Compositae. The region is also remarkable for a large number of endemic plants. The vegetation of this region has little in common with that of the rest of South Africa, and there is much evidence to suggest that even the origin of this flora may be different from that of the rest of South Africa. It is the richest floral region in Africa, in fact it is one of the richest floral regions of the world, and it has long been renowned for its wealth of bulbous plants, which have for some time been introduced into cultivation throughout Europe and many other parts of the world.

Parkland.

Parkland vegetation covers the north-eastern and central portions of the sub-continent. Three well-marked types occur :—

(1) Open woodland and orchard country of evergreen and deciduous tree and bush.
(2) Open woodland country of sub-tropical evergreen and deciduous tree and thorn forest.
(3) Thorn country.

(1) Evergreen and Deciduous Tree and Bush.

Open woodland and orchard vegetation characterizes the mountainous and rugged country in the western and eastern Transvaal, which is described locally as " Banken veld ". The rainfall over this area varies from 25–35 inches, and the underlying rocks are composed largely of quartzites.

In the eastern portion, where the country falls within the rain shadow of the Drakensberg, tall arborescent Euphorbias, *E. ingens* and *E. Cooperi* and arborescent Aloes, *A. castanea*, *A. Marlothii* form a conspicuous feature in the landscape.

Similar open woodland and orchard vegetation covers the mountainous country to the north known as the Limpopo Highlands, especially on the Waterberg plateau, where the sandstones and quartzites give rise to similar soils. On the Pietersburg plateau the vegetation is mainly orchard country in which deciduous trees dominate. The trees are chiefly Acacia spp., " maroola " *Sclerocarya caffra* and the " naboom " *Euphorbia ingens*.

The vegetation on the eastern slopes of the northern Drakensberg is typical of that " open woodland " country. It consists of tall grass (4–6 feet) interspersed with bush and tall trees. The characteristic trees of this region, which receives a rainfall of 35 to 45 inches, are the " mobola plum " *Parinarium mobola*, the " kejatenhout " *Pterocarpus angolensis*, the " waterboom " *Syzygium cordatum* and the " hill matome " *Diospyros mespiliformis*.

On the Zoutpansberg range a remarkable assemblage of temperate and tropical species and of hygrophilous and sclerophyllous plants is found within comparatively short range. Temperate broad-leaved evergreen forests, tropical forests and thorn forests all occur in succeeding ranges from south to north, and with decreasing rainfall.

(2) Subtropical Evergreen and Deciduous Tree and Thorn Forest.

This type of vegetation covers the low-lying country ranging from 500 to 2,500 feet in Zululand, Swaziland and the eastern and northern Transvaal.

The vegetation is mainly dry thorn forest with occasional large evergreen trees scattered through it. Over the northern portion, the annual rainfall rarely exceeds 15 inches, and frequently it is much less. Over the eastern portion it varies from 15 to 30 inches, but a long dry period is nearly always experienced sometime during the year. South of the Olifants River the vegetation is typically an Acacia thorn forest. Tall trees are the dominating feature, and of these *Acacia pallens* is the most characteristic, especially on drier soils. On soils which are inclined to be waterlogged, dense thickets of *Acacia rostrata*, *A. arabica* var. *Kraussiana* and *A. litakunensis* commonly occur. Along the watercourses and at the edges of swamps the " fever tree " *Acacia xanthophloea* is typical of this region.

(3) Thorn Country.

The type of vegetation known as " thorn country " covers practically the whole of the central portion of South Africa as far south as latitude 28°. It covers the greater part of British Bechuanaland, the Bechuanaland Protectorate, the north-western and central Transvaal and the eastern portion of South West Africa.

Over the eastern portion the rainfall varies from 20–25 inches ; over the central portion it ranges from 15–25 inches, while the western portion receives 5–15 inches.

Deep sandy soils characterize the region as a whole. Thorn bush and thorn trees are the dominating features of the landscape. The most characteristic tree of the whole region is the " camelthorn " *Acacia giraffae*. It is common throughout the area, except in the low-lying south-eastern portions where the soils are highly alkaline, and here the " vaal-kameel " *Acacia haematoxylon* assumes dominance. There is a great variety of Acacias throughout this area.

In the western portion large tracts of country are covered by the " driedoring " *Rhigozum trichotomum* which is frequently associated with *Parkinsonia africana* and *Cataphractes Alexandri*. In the south-west portion the sand has blown into long, wide, undulating dunes, which usually have a west-north-west trend. These are mainly grass-covered with scattered thorn bush. The dominant grasses are the " tall " and " short bushman grass ", *Aristida ciliata* and *A. uniplumis* respectively. On the tops of the dunes, the most characteristic grass is the coarse *Danthonia suffrutescens*.

In the country usually referred to as the Kalahari desert, one of the most characteristic herbaceous plants is the " tsama " *Citrullus vulgaris* var. On this most of the animal life in this semi-desert region depends for its water supply.

Grassland.

Grassland vegetation occupies the eastern portion of South Africa. It is a region of spring and summer rainfall and long, cold, dry winters. The rainfall over the area varies from 20–40 inches. Three main types of grassland can be distinguished :—

(1) Tall grass.
(2) Short grass.
(3) Mixed grass.

(1) Tall Grass.

Tall grass covers the country which lies between the eastern escarpment and the coastal belt. The dominant grass throughout is *Hyparrhenia hirta* and allied species. It forms a dense cover and a uniform sward. In moister situations taller grasses belonging to the genus Cymbopogon are dominant. Cymbopogon and Hyparrhenia characterize the vegetation on the higher slopes of the escarpment.

In the low-lying, sheltered and drier valleys at lower altitudes, Acacia trees, thorn bush and arborescent succulents such as Aloes and Euphorbias invade the grass and hold their

own. In such localities the dominant grasses belong to the genera Themeda, Digitaria, Panicum, Rhynchelytrum, Setaria, Pennisetum and Chloris.

(2) Short grass.

Short grass covers the high-lying country (5,000–6,000 feet) west of the Drakensberg escarpment. This country is known locally as the Highveld. It is essentially grass country devoid of natural tree and bush. The dominant grass throughout the region is a short or dwarf form of *Themeda triandra*. Associated with the grass cover and intermixed with it is a large number of herbaceous plants.

(3) Mixed Grass.

Mixed grass covers a wide tract of country lying between the Highveld on the east and the thorn country of the Kalahari on the west. The region includes a number of different geological formations and consequently exhibits a great range of soils. These in turn show considerable variation in the grass covering. The region as a whole is pure grassland, but frequently on rocky outcrops bush and scattered trees may occur.

Desert Shrub.

Occupying the high country between the Kalahari on the west and the dry Vaal-Hart Valley on the east, is a mixture of thornscrub and desert shrub not met with elsewhere in the Union.

The Desert Shrub vegetation covers a broad belt of country extending from South West Africa southwards to the Province of the Cape of Good Hope, when it broadens out considerably and extends almost to the coast at Port Elizabeth and Port Alfred, where it creeps down the valleys of the Sundays and the Great Fish Rivers. The rainfall over the whole area varies from 5 to 15 inches. It is greatest in the south-eastern portion. The southern portion of this area is composed of Karoo beds with rich and shallow soils, whilst in the central and northern portions granites and gneiss occur. Although there are many distinct plant associations, there is a remarkable uniformity in the general appearance of the vegetation throughout the area. Except in the extreme south, where succulents dominate, desert shrubs and shrublets characterize the whole area. The plants may be either woody or fleshy, and they are always widely spaced in bare soil. They are generally of a fairly uniform height. The leaves in most cases are small and well adapted to withstand desert conditions. Except in the southern portion, trees are not a conspicuous feature within the area.

The Karoo proper, which occupies the southern portion of this area and is really a great shallow basin lying at an altitude of 2,000 to 3,000 feet, is covered with fleshy succulents widely spaced in the bare soil and harbours many bulbous and tuberous plants. In the southern portion tree growth is sometimes a conspicuous feature.

North of the Karoo, on the country lying above 4,000 feet, the vegetation is composed almost entirely of " karoo bush " or woody shrubs. These occur mainly on shallow and rocky soils. Wherever the soil is sandy and deeper, the " driedoring " *Rhigozum trichotomum*, a bush which usually attains a height of 3 to 4 feet, mostly dominates. After rain this bush is densely covered with white flowers and forms a conspicuous feature of the Karoo. On the rocky kopjes in this area another species of " driedoring ", otherwise known as the " wilde granaat " *Rhigozum obovatum*, is a remarkable sight after rain, with its masses of bright yellow flowers.

The central portion of this area, which includes Bechuanaland and Namaqualand is composed of vast plateaux and plains. The granitic soils are mostly sandy and are mainly covered by the " driedoring " *Rhigozum trichotomum*, the " baviaanskos " *Augea capensis*, and, where the drainage is poor, by " ganna " *Salsola* spp. On the deep sandy plains the " bushman grass " *Aristida brevifolia* often dominates.

True desert occurs along the west coast of South Africa from just beyond the Olifants River in the south to beyond our boundary in the north. The belt varies in width from 10

to 80 miles. Its broadest portion is from Lüderitz Bay to Conception Bay. It extends inland down the valley of the Orange River nearly as far as Upington, and broadens out over a large part of Great Namaqualand, with a corresponding extension north of the Orange River. The average rainfall throughout this area is from under 1 inch up to 5 inches. Over many parts of the country rain frequently does not fall for several years. The whole country throughout the year has a typical desert appearance. The few plants that do occur are mainly stem succulents, and there are always wide spaces of bare ground between them.

The coastal desert extends from the western slopes of the escarpment to the coast line and five distinct zones can be distinguished, viz. the western slopes of the escarpment, the gravel plains, the sand dunes, the rocky hills and the seashore.

The plants that characterize the western slopes are the " kokerboom " *Aloe dichotoma*, the " gifboom " *Euphorbia virosa*, the " melkboom " *Euphorbia Dregeana* and the " Bushman's candle " *Sarcocaulon Burmanii*.

The gravel plains may be destitute of obvious plants for miles and miles. Sometimes they bear a scanty growth of the " vogelstruisgras " *Eragrostis spinosa* and the " twaa grass " *Aristida brevifolia*, and occasionally the " baviaanskos " *Augea capensis* and several species of the " Bushman's candle " *Sarcocaulon* spp. In the north in the neighbourhood of Walvis Bay, the extraordinarily interesting and remarkable coniferous plant, the " tumboa" *Welwitschia Bainesii*, occurs. With it is commonly associated one of the " schilpadbossies " *Zygophyllum Stapfii*.

There is little vegetation on the sand dunes, but occasionally the " steekriet " *Eragrostis cyperoides* and the " vogelstruisgras " *Eragrostis spinosa*, in widely isolated tufts, are found.

Along the seashore a few interesting succulents belonging to the genera *Salicornia* and *Salsola* have established themselves.

The vegetation found in the valley of the Orange River is equally remarkable and interesting. The rocky mountains which flank this river harbour an apocynaceous plant, the " halfmens " or " elephant's trunk " *Pachypodium namaquanum*, a tall cylindrical stem succulent which attains a height of 12 to 15 feet and bears a crown of leaves and flowers. It has the remarkable habit of always pointing northwards. Other interesting stem-succulents in these hills are the Namaqualand " spekboom " *Ceraria namaquensis*, the " kokerboom " *Aloe dichotoma*, the " gifboom " *Euphorbia virosa*, and several species of *Cotyledon*, *Sarcocaulon* and *Commiphora*.

In this brief outline of the vegetation of South Africa, it has been possible to give only a rough idea of the main botanical features of the country. The flora, more than 15,000 species, is one of the most diverse and interesting in the world.

Fungi in Relation to the Natural Vegetation.

As might be expected, the forest country has had a special attraction for the mycologist. In the " bush " on the coast of Natal, Zululand and the Transkei large numbers of fungi have been found, including those collected by Medley Wood at Inanda and in the neighbourhood of Durban, and a part of Miss A. Pegler's collections in the district of Kentani. Other localities explored for fungi in this region of " evergreen and deciduous bush and tropical forest " are in the neighbourhood of East London and on the Natal coast ; only a few specimens have come from the more tropical coast of Zululand and Moçambique, which would well repay exploration.

The " temperate evergreen forests " have yielded a very large proportion of the fungi known to occur in southern Africa, particularly the Hymenomycetes, Ascomycetes and Myxomycetes. They also harbour a great variety of lichens, few of which have yet been identified. Many of MacOwan's earlier collections were made in the forests of the Boschberg near Somerset East, and the forests of the eastern Cape were extensively explored for Hymenomycetes by J. D. M. Keet of the Forestry Department and P. A. van der Byl. The latter also collected in and around Knysna, and it was partly on specimens from the Knysna forests that Miss A. V. Duthie's studies of Myxomycetes and her outstanding contribution to the knowledge of South African Gasteromycetes were based. W. G. Rump,

on the staff of the Natal Museum, has searched the forests in the neighbourhood of Pietermaritzburg and has added much to the knowledge of the Hymenomycetes in that area.

Many of the indigenous forests have been visited on numerous occasions by those interested in mycology, especially the Xumeni forest in the Polela district of Natal, the forests of the Amatola Mountains in the eastern Cape, especially the Pirie forest and the Hogsback, those of the Knysna, George and the Tzitzikama farther west and of the Woodbush in the northern Transvaal. In these forests in addition to the larger fungi, many leaf-inhabiting ascomycetes have been found, and these, in damp places, are in their turn attacked by numerous hyperparasites. Leaf spots and other lesions caused by Fungi Imperfecti are common, but few have yet been put on record. During the wet season Agarics develop in variety and profusion on tree trunks, on fallen logs and in humus. Owing to the difficulty of preserving specimens in a recognizable condition practically nothing is known of the more ephemeral species. A few cosmopolitan species have been recorded and some were described as new from specimens collected by Medley Wood and MacOwan; the type specimens of the latter are often in poor condition and unrecognizable. Apart from the Hymenomycetes, little is known of fungi attacking wood and living as saprophytes in the humus forming the floor of the forest.

The number of fungi recorded from the region of "evergreen sclerophyllous bush" is far below what might be expected in so rich a floral region. Some interesting Gastromycetes come from this region, including those collected by Miss Duthie around Stellenbosch and by Miss E. L. Stephens near Cape Town. A number of parasitic fungi have been found, including some interesting species on the Proteaceae, but a systematic search would probably reveal many more on the indigenous flora. Many of the rusts and other parasitic fungi which are known were originally found on flowering plant specimens prepared by early collectors. MacOwan's later collections, including a large number of lichens came from the vicinity of Cape Town.

The vast region of parkland, covering the north-eastern and central portions of the sub-continent is mycologically practically unexplored. A few collections have been made in the eastern Transvaal, largely by L. C. C. Liebenberg and in the neighbourhood of Lourenço Marques by C. W. Howard once entomologist in this territory, by J. G. A. Cardoso and by the Swiss missionary Rev. H. Junod. Another missionary, Father Menyharth contributed fungi and lichens from the lower Zambesi area. In Rhodesia, the collections of F. Eyles and J. C. Hopkins are mostly from this type of country.

In the section of this region known as "thorn country", with a long dry season and low rainfall, very few fungi have been found and they are apparently sporadic in appearance, Some of those found are of particular interest. *Polyplocium inquinans* was found near Vryburg, and a number of remarkable fungi were collected by J. Acocks in the thorn country of Griqualand West, including *Montagnites Candollei*, *Gyrophragmium Delilei*, *Secotium agaricoides*, *Phellorina inquinans* and *Geastrum arenarium*. The Broomeias are found in the thorn country and also some truffles of the genus Terfezia.

The extensive grasslands have also been very imperfectly explored for fungi, although a number of parasitic species have been described. Very little is known about the Agarics which frequently appear in considerable numbers after rain; some of the species found by MacOwan have not been noted in recent years, and it has been observed near Pretoria that certain Agarics are sporadic in appearance, and in localities under observation may only appear once in 5 to 7 years.

Part of MacOwan's earlier collections were made in the vicinity of Somerset East in the extreme south-east of the grassland area, and the inland part of the Kentani district, where Miss Pegler found some hundreds of fungi, is also grassland. I. B. Pole Evans has contributed specimens found in the course of his botanical explorations and some fungi of interest have been contributed by A. O. D. Mogg, especially from the grasslands of Natal. A fair number has also been found in the Transvaal, especially in places within easy reach of mycologists stationed in Pretoria.

Of the fungus flora of the desert shrub little is known. *Polyplocium inquinans* was first discovered on the banks of the Orange River and again in the Burghersdorp district by Gideon Joubert, who found several other interesting fungi. A few parasitic species including rusts have been found, and judging by the few collections of which records are available, there is a particularly rich and interesting lichen flora in this region.

Some thousands of specimens of South African fungi have been collected and named, but the mycological work so far accomplished can only be regarded as a foundation for further research. In very few areas has any systematic search for fungi been made and many of the specimens collected have been imperfectly studied. In few cases is any information available about seasonal prevalence, geographical distribution, host range and spore forms of the fungi recorded.

South African mycology is a very broad field and the workers are few. Apart from the earlier collections, the work has been done by those whose main interest was plant pathology. Only in recent years has a post been created in the National Herbarium for a systematic mycologist. This is a small beginning, but it is encouraging, as it implies an official recognition of useful work accomplished and of the necessity for a study of fungi in relation to indigenous as well as cultivated plants.

Plants in Cultivation.

The history of plant introduction into South Africa begins in 1651, with the arrival of Johan van Riebeeck to establish a settlement at the Cape ; van Riebeeck was accompanied by a gardener, as the settlement was to be half-way house to the east where water and provisions could be obtained. *Vegetable seeds were brought from Holland, sub-tropical trees and plants from Batavia and from Europe apple and pear trees, chestnuts, olives, plums and cherries. The trees planted by van Riebeeck at the Cape were the beginning of South Africa's great fruit industry. Vines were introduced at a very early date, and with the arrival of the Huguenots the quality of the grapes and of the wines produced, gradually improved ; so also did the general cultivation of the land.

In the Paarl and Stellenbosch districts, where many of the Huguenots settled, viticulture is still one of the most important agricultural pursuits ; many thousands of vines are grown in other parts of the south-western Cape, especially in the districts of Worcester, Robertson, Montagu, Malmesbury, Tulbagh, Ceres, Cape and Caledon. This region, of which the natural vegetation is evergreen sclerophyllous bush, is also the most important for deciduous fruit trees.

Citrus trees, which were introduced at an early date into this region are still to be found there, but more extensive orchards have been planted in other parts of the Cape, in the Transvaal, in Natal and in Southern Rhodesia ; some 56,000 acres are planted with citrus trees in areas where frost is not known or is slight. A variety of tropical fruits is grown in the warmer districts, chiefly in the Low Veld and sub-tropical forest areas ; the chief centres for pineapple growing are near the coast of the eastern Cape and Natal.

In 1652, at the back of Table Mountain, van Riebeeck found in the kloofs of the mountain " fine, thick and fairly long trees " and higher up the mountain " hundreds of such trees fit for masts for ships but difficult to remove ". These yellow-woods were cut for building purposes and the natural forests on the mountain destroyed. To provide timber, sacks of acorns were sent from Holland and kernels of stone and cluster pines from Italy ; these were planted in quantity and flourished amazingly. In other parts of the country the indigenous forests have also been heavily exploited and now cover only a small acreage. Plantations of exotic trees have been established to provide a part of the country's timber requirements and the greatest acreage under trees is to be found adjacent to the natural forests, the majority being species of Pinus, Eucalypts and poplars.

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* A most interesting account of the early days of agriculture in South Africa is to be found in ' Historic Farms of South Africa ; the wool, the wheat and the wine of the 17th and 18th centuries ' by Dorothea Fairbridge. Oxford University Press, 1931.

Large plantations of the Australian wattles (*Acacia mollissima* and *A. decurrens*) are grown for the production of bark extract used in tanning. Of over 568,000 acres planted with these trees, about 500,000 acres are in Natal. Other exotic trees are grown in considerable variety but in comparatively small numbers.

Wheat, oats and barley, introduced into the Cape by van Riebeeck, are grown mostly in the south-western Cape in the region of sclerophyll vegetation. In the north-western Cape and the eastern Orange Free State, wheat is a winter dry land crop; in the Transvaal a considerable quantity is grown under irrigation. Maize, one of the agricultural mainstays of the country, was introduced into Africa in early years by the Portuguese; it probably reached southern Africa towards the end of the 18th century and has become the staple food crop of the South African native. Maize is cultivated extensively, but the main production is in the grassland country of the Natal midlands, the Orange Free State and the southern Transvaal.

Sugar cane is an important crop in the coastal belt of Natal and Zululand, where the plantations have largely replaced the natural bush. Coffee, once cultivated on the Natal coast and in the northern Transvaal is no longer grown on a commercial scale; the decline of this industry was due in part to the attacks of the coffee rust, *Hemileia vastatrix*.

In most parts of the country, potatoes are grown, the largest quantities being produced in the grassland. Tobacco is an important crop in certain areas of the Transvaal, the Cape Province and Southern Rhodesia, and other solanaceous crops such as the tomato, brinjal or egg plant and the " Cape Gooseberry " *Physalis peruviana* are cultivated freely, tomatoes being a winter crop in the sub-tropical areas.

Peanuts are grown extensively, chiefly in the sub-tropical parts of the Transvaal, and numerous other plants are in cultivation, including a variety of fodder crops, agricultural grasses and drought-hardy plants.

Some mention must be made of garden plants. South Africa has a natural wealth of flowers and has given the world many of its most beautiful plants. The Ornithogalums, Freesias, Ixias and many other bulbous plants are well known in the gardens of the world and the cultivated varieties of many well-known genera such as Gladiolus and Pelargonium were derived from South African species. In addition, many flowering plants have been introduced; roses and carnations flourish and gardens are gay with all the well-known annuals, of which the hardier varieties can be grown during the winter months.

Fungi in Relation to Cultivated Plants.

Since the middle of the 17th century there has been a steady flow of plants into South Africa, from Europe and Batavia in the early years and later from all parts of the world. During this time many of the fungi parasitic on cultivated plants were introduced into the country with their hosts, some of them at an early date. Describing agriculture at the Cape of Good Hope in the 18th century, Mentzel writes: " The purest wheat is from time to time spoilt by rust, which covers the ears with black dust and spoils the grains . . . No better remedy has yet been found than to sow seed wheat from other places where this has not occurred." In 1820, according to Theal, the wheat crops throughout South Africa were attacked by a kind of blight previously unknown in the country and those in the Albany district were completely destroyed. In 1821 the wheat crops in that district again entirely failed from blight; this was a severe blow to the newly arrived settlers. During the years 1820–1825, the repeated failure of the wheat crop in the Albany district owing to the attacks of rust is mentioned by Thompson (1827) as a serious obstacle to the progress of the new settlement. In a foot note he refers to earlier failures of the wheat crop: " The nature and causes of the vegetable disease called the *rust*, which has been recently so calamitous to the Cape, I do not profess sufficient agricultural or scientific skill satisfactorily to explain. Its prevalence is not altogether unprecedented in South Africa; for there are ecords of its existence in 1708–9–10, to such an extent that there was scarcely sufficient eed corn left in the Colony—and again about 50 years ago though not in a shape so virulent."
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Many fungi on cultivated plants are widespread and occur wherever the host is cultivated, others are limited in their distribution and some which have been introduced have not become troublesome because of climatic conditions.

The cereal rusts such as *Puccinia graminis* on wheat and oats, *P. anomala* on barley and *P. coronata* on oats are common and widespread. These are heteroecious species, but are perpetuated from year to year without the development of aecidia on an alternate host. *Puccinia maydis*, another heteroecious rust is equally widespread; although an alternate host, *Oxalis corniculata* is fairly common, aecidia are found only occasionally. *Aecidium Oxalidis* occurs on other species of Oxalis but spores from these hosts failed to infect maize.

Smuts of cereals are common and many fungi parasitic on fruit trees such as *Puccinia pruni-spinosae*, *Cladosporium carpophilum* causing freckle on peaches and apricots and *Taphrina deformas* causing peach leaf curl, occur in most areas where the hosts are grown. Equally common and widespread are many parasites of field and garden plants.

Other introduced fungi are only found in certain limited areas. *Cercospora Leoni* is found on sultana vines in the Upington area, where it causes considerable damage; in the same district a destructive wilt of cotton is caused by *Verticillium alboatrum*. *Cercospora Leoni* is not known elsewhere, and of *Verticillium alboatrum* in other parts of South Africa there are only one or two records on *Solanum* spp.

Phoma citricarpa, causing black spot on oranges, known in China, Formosa and parts of Australia, was introduced many years ago into the Town Bush Valley and the Chase Valley near Pietermaritzburg. Until a few years ago it was restricted to these valleys, where mist and rain are common in the early spring; recently it has spread into citrus orchards in other parts of Natal where less humid conditions prevail, and has also been found in the Transvaal.

Another fungus which has become destructive in recent years is *Phytophthora infestans*; this fungus has been introduced into the country not once, but many times with imported seed potatoes, but for some 25 years during which observations were made, only two outbreaks of "Irish potato blight" of any consequence were reported. The potato variety "Up-to-Date" which was the chief maincrop variety grown, was until recently regarded as one of the most resistant varieties; for some reason, during the last decade, its resistance has broken down. It is now very susceptible, and *Phytophthora infestans* is a troublesome parasite in potato fields in areas such as parts of Natal, and near Haenertsburg in the Transvaal, where conditions are suitable for its development.

Some parasitic fungi common in other countries have not reached South Africa. Rusts of the genus *Uromycladium*, common on Australian Acacias, are not found in the wattle plantations; this may be due to the fact that only seed of these trees has been imported and that it is subjected to considerable heat before planting.

Puccinia Asparagi which causes great damage to the cultivated asparagus in America has been found on *Asparagus Cooperi* and *A. plumosus*; in America this rust is said not to occur on *A. plumosus*; in South Africa there is no record of its occurrence on the cultivated *A. officinalis*.

On the other hand, *Uromyces transversalis*, a rust which occurs commonly in indigenous *Gladiolus* spp., causes serious losses in commercial plantings of the cultivated varieties of this genus.

A few plant parasites have been introduced but do not survive under South African conditions. One of the most noteworthy of these is *Spongospora subterranea*; in some seasons a large percentage of seed potatoes imported show lesions of corky scab caused by this organism, but owing to high soil temperatures and low humidity it does not survive; the only case on record where a crop was infected was during an exceptionally wet season in a locality nearly 7,000 feet above sea level.

Plasmopora viticola has occasionally been observed in the eastern Cape and eastern Transvaal, but it is not a troublesome parasite there and has comparatively little effect on the grape vines. Fortunately, this fungus does not seem to have been introduced into the vine-growing districts of the south-western Cape.

The introduction of fungi on cultivated plants continues, and a number have come to South Africa in the last decade. Amongst these may be mentioned *Puccinia Antirrhini* which was first seen in 1939 and spread throughout the country with great rapidity. In 1943, *Puccinia Helianthi* was reported for the first time in Moçambique and in Southern Rhodesia. A report of a destructive outbreak of rust in large plantations of sunflowers in the Transvaal was received during the same year, but the fungus was not identified until the following season. In the Transvaal *Puccinia Helianthi* was associated with *Cystopus Tragopogonis* which had previously only been found on *Scorzonera* in the south-western Cape.

Another recent introduction is *Sphaerotheca pannosa* var. *persicae*, which is an active parasite of peach trees. This fungus was apparently introduced on some trees which came from South America; it has spread rapidly through the peach orchards and has become one of the most troublesome of the fungi with which fruit growers have to contend.

III.—HISTORY OF OBSERVATIONS ON THE FUNGI AND LICHENS OF SOUTH AFRICA.

The settlement founded by Johan van Riebeeck at the Cape in 1652 at first made slow progress; the settlers had to contend with the alternation of drought and flood, so well known in South Africa, their crops were destroyed by the south-easterly gales, great damage was caused by wild animals and much vexation by the pilfering habits of the Hottentots. In 1679, the colony comprised only the settlements round the foot of Table Mountain, a cattle station at Tygerberg, the outposts at Saldanha Bay and the ground beyond the isthmus held on lease from the Hottentots.

After the arrival of Simon van der Stel as Governor, expansion became more rapid. He discovered the beautiful Stellenbosch valley and before many months had passed the first farmer put his plough into the ground there; a few years later 23 farms were marked out along the Berg River in the Drakenstein Valley. In the first years of the 18th century the second terrace upward from the sea began to be occupied by Europeans, who settled in the fertile Tulbagh basin and spread gradually down the valley of the Breede River and over the Witsenberg to the high plateau called the warm Bokkeveld. Some crossed the Hottentots Holland mountains and pushed their way to the sea at Cape Agulhas; others kept up the western coast and in the course of time reached the mouth of the Olifants River.

Expansion continued steadily, and by the middle of the 18th century the eastern frontier was fixed at the Gamtoos River and Bruintjes Hoogte; the northern boundary was not defined. On the fringes of the colony lived the graziers, the real pioneers, whose life was often rough and wild. They spent a part of the year as semi-nomads, the cattle breeder and his family passing the day in the open air and sleeping in a great tent wagon. To the north their sheep and cattle were sometimes driven off by Bushmen and a little excitement was caused by pursuit of the marauders. On the eastern border the Xosas were expert stock-lifters, but had not come into direct conflict with the settlers. Behind them as they moved onward, a more settled class of people occupied the country, although thinly, in contrast to the closer settlement nearer to Cape Town.

An old elephant hunter named Willem Prinsloo was the first white man who, in 1771, made himself a home beyond the borders of the Colony, on the banks of the little Fish River, where he occupied the site of the present village of Somerset East.

To this South Africa of 1772 came Dr. Carl Pehr Thunberg, to add to the knowledge of the most rich and beautiful flora, the fame of which had reached Europe in the early days of the Dutch settlement. His means were slender, and in order to reach the Cape he sailed as extra surgeon on one of the East India Company's ships, arriving in Cape Town in the middle of April. Here he *"visited Mr. Auge, the gardener who has made many and those very long excursions into the interior of the country and has collected all the plants and insects which the late Governor Tulbagh sent to Europe to Linnaeus, to the Professors Burmann and van Ruyen."

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* Quotations from Thunberg's Travels, English translation.

At first Thunberg's botanical explorations were made in the neighbourhood of Cape Town, on Table Mountain and Paarl Mountain. The flowering plants were his main interest, but during his travels he collected a number of cryptogams ; 14 fungi and 39 lichens were listed in his Flora capensis, the first plants of these groups to be recorded from South Africa. He rarely states where these were collected ; this information, which might be found on his herbarium labels, unfortunately is not available. In the month of May, after rain, he found *Agaricus muscarius* growing near the town, between bushes, and in June and July *Agaricus campestris ;* on stones at the top of Table Mountain, on the side facing town, he collected *Lichen tabularis.*

In September a more extended tour was undertaken, which lasted till the end of the year. With Auge for companion and two other Europeans, an ox wagon and equipment for collecting plants and animals, Thunberg travelled first in a northerly direction, past Saldanha Bay, where in September to October he found *Lichen flavicans,* till he reached the Groot Bergrivier ; at this point he turned to the south-east, crossing the Witzenberg and the Hex Rivier to Swellendam. The expedition then continued eastward, visiting the forest at Grootvadersbosch in the Swellendam district, where *Boletus sanguineus* was collected, and travelling along the Attaqua and Outeniqua Mountains, which were crossed in a northerly direction into the Langekloof. Still farther east the sea was reached at the mouth of the Gamtoos River, which was the eastern limit of this journey.

In September of the following year Thunberg set out on a second journey. This time for his fellow traveller he " had an English gardener of the name of Masson, who had been sent hither by the King of England to collect all sorts of African plants for the gardens at Kew. Mr. Masson arrived the year before on the same ship in which Captain Cook with the Professors Forster and Sparrman were to make their celebrated voyage round the world and towards the southern pole." He had arrived in Cape Town after Thunberg had set out for Caffraria. Again Thunberg started his journey in a northward direction, till he reached Elands Kloof, then travelled southward through the Cold and the Warm Bokkeveld to the Winterhoek Mountains, through Goudini to Swellendam, later reaching Mossel Bay. Going again through the Langekloof to the Gamtoos River, which was then the limit of the Cape Colony, he pushed on to the Sunday's River which runs into Algoa Bay to the north-east of Port Elizabeth.

A few quotations from Thunberg's Travels (English translation) suffice to indicate the labour involved in making such journeys and the dangers encountered :

" Roads that can be properly so called are not to be found in all this southern part of Africa ; yet the way which people in general take, when they travel, is pretty well beaten in the neighbourhood of the Cape ; farther down the country, indeed, very often not the least vestige of a road appears. Therefore . . . it may easily happen that a traveller shall lose his way . . . On the 2nd of November, we were overtaken by some remarkably heavy showers when we crossed Quaiman's drift . . . More weary and wet or in a worse plight we never could have been."

The expedition passed the forests of the " Houtniquas " where Thunberg found *Clavaria capensis* (fide Juel, 1918, this is a Xylaria), and on the yellow-woods collected for the first time *Lichen helophorus,* now known as *Corynelia uberata.* Wild animals were plentiful and the expedition was able to shoot game for food ; but on more than one occasion the wild animals were a source of danger.

" In the afternoon we arrived at Koukuma River " (Goukamma River near Knysna) " and intended to pass through a thicket to a farm which we discovered on an eminence.... We had not advanced far into the wood before we had the misfortune of meeting with a large old male buffalo." The unfortunate horses were abandoned to their fate and Thunberg escaped by climbing a " tolerably high tree ", until the buffalo, having expended his rage on the horses, departed along the way they had intended to travel; going in search of his companions he " discovered these magnanimous heroes sitting fast, like two cats, on the trunk of a tree with their guns on their backs. . . ."

" On the 11th we passed over the very lofty mountains that lead to the Lange Kloof. The sides of the mountains that we passed over were sometimes so steep and the path so narrow that we did not cross it but at the hazard of our lives and shuddered when we looked down the precipice."

During the return from Kaffraria in 1772, " having crossed Keurbooms River we proceeded to Diep River and on the 10th came to Ganskraal. Behind the low mountains lay Camenassie Land. The *Lycorperdon carcinomale* grew here on the ant hills, the brown powder of which was said to be used in cancers."

During the second journey into Caffraria, when they reached the Sundays River, Masson and Thunberg consulted their guide and attendants about continuing eastward, but none of them were inclined to proceed farther, on the ground that they were now on the borders of a powerful nation, the Kaffirs. " The Caffres it is true are not bad in themselves, but as they are in great want of iron, they are sometimes so greedy after it as to make no conscience of murdering a Christian for the sake of getting the iron from off the wheels of his waggon."

The third journey, undertaken in 1774 by Thunberg and Masson was in a northerly direction over Riebeck's Casteel through Zwartland to Piquetberg, then north-east over the Maskamma berg to the Hamtam-berg. They then turned south-east through the Lower and Middle Roggeveld and south-west back to Cape Town. It must have been on the return journey that Thunberg found *Lichen incarnatus*, " in Carro infra Bockland " (? in the Karroo below the Bokkeveld). This is a xerophytic lichen, living in calcareus soil and now known as *Lecidea decipiens*. At this time the farms on both sides of the Roggeveld Mountains were subject to the depredations of Bushmen; Thunberg himself relates that in 1772 a party of Bushmen murdered a burgher and his family and drove off the cattle from several farms.

His experiences on these journeys in southern Africa are epitomised by Thunberg in his author's preface to the Flora capensis, 1923 :—

> " Thunberg, Carol Petrus, Suecus, occasione, quam in Florae meae japonicae indicavi, ad hasce Australis orbis oras perductus, ab Anno 1772 usque ad Annum 1775, omnis generis Naturalia, praecipue vero Florae Capensis dilectissimas copias sedula et indefessa manu quaesivi, collegi, examinavi et descripsi. Hunc in finem plura suscepi itinera, saepius molestiarum et periculi plena; imprimis vero quotannis ad remotiores regiones, itinere per plures menses producto, penetravi; atque sic per
>
> *Dunas* arenosas, *Rivos* infidissimos,
> *Carro* aridissimas, *Campos* undulatos,
> *Littora* falsa, *Colles* lapidosas,
> *Alpes* altas, *Praecipitia* montium,
> *Fruteta* spinosa, *Sylvasque* inconditas,
>
> pericula vitae adii, feroces gentes at bruta prudenter elusi, Thule hujus australis gazas speciosas detegendi grstia laetus cucurri, sudavi et alsi."

This is reminiscent of St. Paul's account of his journeyings, " In journeyings oft, in perils of waters, in perils of robbers . . . in perils by the heathen . . . in perils in the wilderness."

Thunberg's fungi and lichens were no doubt sent to Europe with the rest of his specimens; new species were described by the younger Linnaeus (1781) and by Acharius (1798).

Plate 2.—Cradock Pass: "Over the very lofty mountains that lead to the Langekloof", Thunberg. From an engraving by C. C. Michell.

The fact that the mycologist Persoon was born in South Africa is a source of pride to the country of his birth. He was left an orphan at an early age, sent to Germany, and afterwards settled in Paris. He had therefore no special interest in South African mycology and the few references in his Synopsis Methodica Fungorum are to fungi collected by Thunberg, e.g. *Sphaeria turbinata*. Hab. ad Caput bona spei in foliis gramineis. Ab illustre Thunberg et celeberrimo Swartz benevole mihi missa est.

Scleroderma carcinomale—Lycoperdon carcinomale L. Hab, ad Caput Bonae spei in acervis formicarum.

Some 35 years elapsed before any further observations on South African fungi and lichens were made. During these years the colony had made progress, had become more closely settled and had extended its borders. A number of mission stations had been established, one of the most notable being founded outside the boundaries of the colony in a well-watered valley north of the Orange River. This station, named Klaarwater (now Griquatown) became the nucleus of a settlement which was a place of attraction for Hottentots and coloured people of mixed descent. The missionaries led out water, started cultivation and planted trees, and an attractive village with several outstations grew up.

In November, 1810, William John Burchell landed in Cape Town. His intention was to journey beyond the boundaries of the Cape Colony to the country of the Bechuanas, and from Litakun (now Kuruman) to turn towards the west coast and to try to find his way by sea to St. Helena. In the early days of 1811, however, he had conversation with missionaries from Klaarwater, who were on furlough in Cape Town. From them he learned that it would be inadvisable to travel westward, because of difficulties likely to arise from lack of water and the presence of hostile tribes. He therefore arranged to travel as far as Klaarwater with the missionaries and to make Litakun his objective in the north.

While superintending the building and equipping of his wagon, Burchell stayed in Cape Town with the Lutheran minister, Pastor Hesse, who was an enthusiastic gardener and collector, and amongst other objects of natural history, collected some lichens, which were sent to Europe; one of these was named in his honour *Stictina Hesseana*. During his stay in Cape Town, Burchell found time to make botanical excursions in the vicinity and to undertake, on horseback a tour as far east as Caledon and as far north as Tulbagh. He thus acquired first hand knowledge of some of the ground covered by Thunberg.

Burchell's trek into the interior began in June, 1811, and covered, in all approximately 4,500 miles. At Klaarwater he was unable to procure servants to accompany him farther north, so decided to travel on oxback, with a few Hottentots, a Bechuana and a Bushman, to Graaff-Reinet, to ask help from the landdrost there. For this journey, Burchell relates that one of his Hottentot herdsmen "agreed to furnish three pack oxen and to supply me for my own use with a quiet riding ox and one that could easily be managed, as I was completely a novice in the art of riding on oxback." (Burchell, 1822 : 533.) He was the first European to make a track from Klaarwater through Bushmanland to Graaff-Reinet. Having obtained the assistance which he sought, Burchell left Klaarwater for Bechuanaland, arrived at Litakun about five weeks later and reached the Chué spring (Honing Vlei), the most northern point in his route in October, 1912. After returning to Klaarwater, which was his headquarters for his northern journeys, he made his way south to the eastern part of the Cape Colony.

On the eastern border, the encroachments of the Xosas had led to the Fourth Kaffir war, which had ended in the defeat and flight of the Xosas by March, 1812. A line of military posts had been formed from the sea to the second chain of mountains, to prevent their return. These disturbances had occurred while Burchell was in the country north of the Orange River. It was in 1813 that he went to Grahamstown and made excursions to the mouth of the Great Fish River and the Kowie. He then went by way of Uitenhage to one of the new forts, Fort Frederick (now Port Elizabeth), through Plettenberg Bay, Mossel Bay, the Garcia Pass, Swellendam and Stellenbosch to Cape Town.

He reached Cape Town in April, 1815, and shortly afterwards discovered on waste land belonging to the Government, orchilla (Roccella sp.) growing in considerable quantity.

He wrote to Lieut. Col. Bird, Deputy Colonial Secretary, pointing out that the collection and export of this weed, a lichen yielding a violet-mauve or purple colouring matter, could be made beneficial to the colony. In a letter written in August, 1815, he states that he is obliged to leave his oxen and wagons to be hereafter employed in the collection of orchilla. What happened to his wagons is not known, and apparently nothing came of the communications between the Governor of the Cape Colony and the Colonial Agent for the Cape of Good Hope about the exploitation of this lichen.

It is not clear which species of *Roccella* was found by Burchell growing in such quantity but in 1866, Lauder Lindsay gave the names of lichens sent to England " attached to specimens of ' Angola Orchella Weed ' imported into London for the orchill and cudbear manufacture and sent to me at various times by importers and manufacturers. I have frequently found fragments of trees or shrubs on which the said weed—a species of Roccella—grows. These twigs are not such as to enable me to determine the species of the tree or shrub to which they belong. . . . It is of some interest, if not importance, that we should know to a greater extent, and more precisely than we do at present, the species of trees that nourish the valuable Roccellae (*R. Montagnei Bel.* and *R. fuciformis* Ach.) which constitute in great measure the ' Orchella ' weeds of commerce ; which are imported largely from—the coasts especially of—Central Africa, and which generally occur (especially *R. Montagnei*) on trees near the sea. These Roccellae, which now appear to have completely superseded all other lichens in the home manufacture of orchill and cudbear, are as common on the east as on the west coast of Africa. Dr. Kirk has favoured me with specimens of a large Evernüform state of *Roccella fuciformis* (with which I am disposed to associate *R. Montagnei* as a variety) growing on *Dalbergia melanoxylon*, on the Rovuma River, about eight miles from the coast, in eastern tropical Africa (Zambesi Expedition), which resembles what now enters the London market as ' Mozambique weed '."

During recent years, 1941–1942, manufacturing chemists in London, whose usual source of supply in Holland had been cut off, enquired about the possibility of collecting and exporting Roccella for the manufacture of litmus. According to an unpublished report made by Mr. S. Garside it would appear that ' orchilla ' no longer grows in quantity as observed by Burchell. Garside states that *Roccella hypomecha* found on rocks near the sea, but above high tide mark, appears to be abundant on all rocky coasts to the east of the Cape peninsula and has been recorded from a number of localities. There is no record of this species having been used for the manufacture of litmus. *R. Montagnei*, which gives the greatest litmus yield of all *Rocella* spp., grows on trees near the sea coast ; it is frequent in the Knysna district and in warmer regions, e.g. Natal and Moçambique. Mr. Garside concludes " These lichens grow in comparatively small quantity. There is no prospect of starting an ' industry' but a considerable probability of exterminating the plants in the more accessible spots."

During his journeyings, Burchell collected a considerable number of fungi and lichens, some 56 fungi and 90 lichens, but his specimens have not been traced ; they are listed in his Catalogus Geographicus (in Mss. in Library of Kew Herbarium) the lichens being inserted between the leaves dated 12th September and 15 September, 1812. Most of the fungi and lichens were gathered during his return journey in 1813–1815, through the Boschberg and thence westward through Keurbooms River, Knysna and George to Cape Town ; but there are a few records of specimens found during the trek northward in 1811–1812, ' on the Windheuvel', 'on the Roggeveld Mountains', at the confluence of the 'Vaal and Orange Rivers ', ' at Klaarwater ', ' at Litakun ' and so on.

Burchell's St. Helena lichens were described by Leighton (Trans. Linn. Soc. XXVII, 1869 : 155) as " unarranged lichens in Herb. Hooker " ; no reference to his South African lichens has been found in any available literature. In the Catalogus most of the lichens are unidentified, or are assigned to a genus. They are usually listed as lichens on branches of his numbered flowering plants or on stones and include species of *Collema*, *Sticta*, *Baeomyces*, *Usnea*, *Opegrapha* and *Lecidea*. Several species of *Parmelia* are included in the list, and some of these are tentatively assigned to species, e.g. *Parmelia pulmonaria*, *P. speciosa* and *P. flavicans*.

Plate 11.—Aecidium resinicolum (Rud.) Wint. on *Rafnia angulata*. (Photo.: H. A. V. King.)

Searching for Burchell's fungi, at Kew, Miss Wakefield found a specimen under *Polystictus sanguineus* labelled *Boletus pulcherrimus* B., This she recognised as a Burchell collection, because of a characteristic dark-coloured label, which he used, with a sign in the corner like a double walled P; there is no locality on the label. This is evidently No. 3167/2 in the Catalogus, "*Boletus pulcherrimus* B., on Boschberg in the forests, 29.5.1813". His beautiful drawing of "*Lycoperdon formicarum*" is unmistakably *Podaxis pistillaris*, but this fungus does not appear amongst those numbered and no locality is given.

Unlike Thunberg and some of the later collectors, who were interested mainly in the larger fungi, Burchell listed many a fungus or "fungillus" on the leaves and bark of his flowering plant specimens, e.g. " on bark of *Rhus pyroides* ", " on leaves of *Capparis citrifolia* in the forest close to Melkhout " (might this be *Oncospora bullata* ?), on *Ilex crocea*, *Podocarpus*, *Olea* and many other hosts. If these specimens could be traced, they would probably constitute the earliest records of a number of parasitic species.

The first rust on an indigenous South African plant of which there is a record was found by a contemporary of Burchell, James Niven, a gardener who collected for Hibbert and the Empress Josephine, 1798–1803, and again for Lee and others, 1803-1812. This fungus, a gall-forming aecidium on species of *Rafnia* (Leguminosae) was first described by Rudolfi (1829 : 389) as follows :—

> "*Caeoma—Aecidium resinaecola* n. spec. Caeoma maculis nullis ; pseudoperidiis in lacinias aequales liveras fissas ; sporidiis pallidis. Habitat in resina effusa fruticum ex familia Leguminosarum, Africae australis. Autumne. Ex interioris Capitis bonae spei a cl. Niven."

Aecidium resinicolum was collected again by MacOwan and by Schlechter on *Rafnia amplexicaulis* and *R. perfoliata*, and a variety, var. *tumefaciens* Wint. on *Rafnia angulata*. The rust was redescribed by Winter (1884 *c* : 264) and material collected by MacOwan was distributed in Rabenhorst-Winter Fungi Europaei et extra-europaei as Nos. 3321 and 3838. (Plate 11.)

In the third and fourth decades of the 19th century, South Africa was visited by a number of botanical collectors who laid a more solid foundation for the study of cryptogams.

Christian Frederick Ecklon was born in Schleswig-Holstein ; he qualified as an apothecary, and in this capacity came to Cape Town in 1823, as assistant to Poleman, a dilettante botanist and the companion of Burchell in his rambles about the Cape peninsula. After some years he gave up his situation and devoted all his time to exploring the flora of Table Mountain and the vicinity of Cape Town. In 1827 he sent away a mass of material and sailed for Europe the following year.

When he returned to the Cape in 1829, Ecklon formed a botanical partnership with Carl Zeyher, who had arrived at the Cape in 1822 with the object of collecting plants. Zeyher went alone to Clanwilliam, Olifants River and the Cedarberg, and then started for Namaqualand and the Khamiesberg, pushing on to the Valley of the Orange River. Meanwhile Ecklon went by sea to Algoa Bay and botanised over the districts of Uitenhage, Albany and 'Kaffirland' as far as the Winterhoek. After returning to Cape Town with their spoil Ecklon and Zeyher set out again in company, ascended the Tulbagh Winterhoek and then undertook their greatest expedition to the eastern frontier. On their return, Ecklon arranged to go to Hamburg to dispose of their joint collections.

This partnership had no particular interest in fungi ; Ecklon collected a number of lichens, which are enumerated by Stizenberger (1890) and it is probable that many specimens in the herbarium of the South African Museum, Cape Town, bearing Dr. Pappe's numbers were from his collections. Ecklon probably also collected some fungi, but they are difficult to trace. In the Berkeley herbarium at Kew, there is a specimen of a fungus on *Osyris abyssinica*, collected by Ecklon at the Cape ; this was a species first found by Boivin and sent by him to Montagne, who described it in 1843 as *Dothidea amphimelaena*. *Polystictus Eckloni* Berk. ex Cooke was collected by Ecklon and Zeyher, in some unknown locality at the Cape.

After his partner's departure for Europe, Zeyher went to Uitenhage, where he was for some time in the service of Mr. Joachim Brehm, a notable gardener. During this period he became interested in the fungi of the district and made fairly extensive collections of the larger species. The bulk of this collection was examined by Berkeley, who published a systematic account of Zeyher's fungi in 1843 ; he listed 31 species and described *Phellorina* as a new genus of the Gasteromycetes. Part of Zeyher's collection was sent by Kuntze to Fries, who found certain remarkable species omitted from Berkeley's account. Fries describe three Agarics as new, and stated that the remainder of Zeyher's Agarics were either common European species or had been fully described by Berkeley.

While at Uitenhage, Zeyher undertook, in November 1840, to accompany James Burke, the zoological collector, in a trip to the north. During this journey a remarkable fungus was found on the banks of the Orange River ; this was described by Berkeley in 1843 as *Polyplocium inquinans*, new genus and species.

When Zeyher fell on hard times, he parted with his herbarium to Dr. Pappe, then colonial botanist ; in his collection of flowering plants now in the South African Museum, a number of leaf fungi, mostly rusts, have been detected ; e.g. *Uromyces Ixiae* has been found on his specimens of *Lapeyrousia corymbosa* (Zeyher 1594) and *Sparaxis bulbifera* (Zeyher 3968) ; further examination would probably reveal other material of interest. On Freesia specimens sent to Europe, Bubak found two rusts, which he described as *Uromyces Freesiae* ' in Promontorio Bonae spei (Zeyher) ' and *U. Ecklonii* (Ecklon and Zeyher).

Of the lichen collections made by Zeyher, *Leptogium africanum* Zahlbr., from the Winterhoekberg near Uitenhage, was determined by Nylander as *L. Brebissonii ; Endocarpum peltatum* in Herb. Hooker was also from Uitenhage ; other collections recorded by Stizenberger in the Lichenaea africana (1890) are from the south-western Cape, on rocks ' Cape of Good Hope ' or from the neighbourhood of Saldanha Bay.

J. F. Drège, botanist, apothecary and traveller, a native of Altona in Germany, arrived at the Cape in 1826 and spent nearly 8 years in South Africa. His MS. diary which survives (Laidler 1937 : 12) is a document of absorbing interest and gives an intimate account of conditions in the country districts through which he passed in his dual rôle of botanical explorer and travelling apothecary. Drège journeyed extensively in the Cape Colony, north to the Orange River and as far east as the Kei River. In the latter part of 1831 he penetrated farther east.

In consequence of the exterminating wars of Chaka, the Zulu warrior chief, the well-watered and fertile country around Port Natal, more favoured by nature than any other part of South Africa, had been depopulated. Dr. Andrew Smith, the celebrated zoologist and traveller, was sent to report on the possibility of opening up this country to settlers, a service of no little danger, owing to the ferocious character of Dingaan, the brother and successor to Chaka. Drège accepted the invitation of Dr. Andrew Smith to accompany this expedition. From the Umzimvubu to the Tugela, a distance of 250 miles, the land had been utterley ravaged ; not more than 50 persons were seen in the whole territory, except near Port Natal. Here a number of natives, the remains of the original inhabitants, had left their hiding places and gathered for protection around the English traders and hunters settled there. Drège proceeded no farther than the Umgeni, but Smith crossed the Tugela to interview Dingaan in his principal kraal on the Umhlatuzi River. Returning with the party early in 1832, Drège spent some time in Uitenhage and then resumed his botanical explorations in the Cape Province, until the beginning of 1834, when he set sail for Germany, taking with him extensive and valuable botanical collections.

In his geographical analysis of South African flora, Drège (1843 : 38) mentions 103 collections of 64 species of fungi ; of these by far the greater number (90) were collected near the coast, 24 in the south-west between Cape Hangklip and Jeffrey's Bay and 66 between Port Elizabeth and Durban. A set of Drège's fungus specimens was sent by Professor Miquel to the French mycologist Montagne, who, in 1847, published notes on 39 fungi, of which all but four were hymenomycetes. Two species *Trametes captiosa* and *Daedalea Dregeana* were described as new. Other fungi collected by Drège are *Sphaeropsis congesta* on *Podo-*

carpus described by Léveillé and a smut found at Paarl and named by Tulasne *Ustilago Dregeana*. The host was not named in Tulasne's original description, but is now thought to be a species of Eragrostis (Zundel 1939 : 573). In the geographical analysis 238 collections of lichens are mentioned, most of which were named ; a few specimens ex Herb. Hampe were described by Massalongo in 1861 in his Lichenes capenses.

A few years after Drège's return to Germany, J. A. Wahlberg, a Swedish naturalist and hunter, collected fungi in Natal and parts of the Cape. This was in the years 1839–1840. His specimens were examined by Elias Fries, who published an account of them in his ' Fungi natalenses ' in 1848. Forty species were described, again nearly all Hymenomycetes. A few of these had also been collected by Zeyher, some Polyporaceae being common to both collections. Wahlberg was a determined and successful elephant hunter and was very adventurous. He was less fortunate than some of the earlier travellers in eluding the ' perils of wild beasts '. Some years later, he was hunting to the north-east of Lake N'Gami, where in 1856, he met his death—having been gored by an elephant (Chapman 1868 : 350).

Two other travellers in the Cape and Natal about this period had some interest in fungi and lichens.

In 1839–1840, a German naturalist, Wm. Quinzius or Gueinzius, resided with a certain Field-cornet Morkel at Hottentot's Holland, where he acted as apothecary and botanist.* In 1839 he collected *Secotium Gueinzii* which was named in his honour by Gustav Kunze, this fungus was later found by Zeyher at Uitenhage. Gueinzius proceeded to Port Natal in 1841, and in 1842 was resident at Congella at the time of the clash between the English settlers at Port Natal and the emigrant farmers from the Cape who entered Natal from the North. (Bird 1888 : 38, 82). At this time Gueinzius left Natal for the Cape, but probably returned later. Amongst the lichens which he collected at Port Natal was *Roccella Montagnei*, one of the ' orchillas ' mentioned by Burchell.

Dr. Ferdinand Krauss, professor at the University of Stuttgart, visited South Africa 1838–1840 ; he travelled in Natal and the Cape Colony, and in 1846 plublished in Flora his " Pflanzen des Cap- und Natal-landes " in which 56 lichen species are listed. Some of the species which he collected, e.g. *Leptogium Kraussii, Arthonia violascens* and *Stephanophorus Kraussii* were described by von Flotow (1843) in Linnaea.

William Henry Harvey, well known as the auther of the " Genera of South African Plants ", was at the Cape during the years 1835-1841. During this time he held the post of Colonial Treasurer, but spent all his hours of leisure in collecting and studying plants in the neighbouring mountains and plateaux. While making his extensive collection of flowering plants, he found several Agarics, which were described by Berkeley (1844 : 186) including two new species *Bolbitius mitraeformis* " on Devil's Mount " in 1841, and *Cantharellus* (*Pleuropus capensis*) on decayed stalks of herbaceous plants on the summit of Table Mt. In his genera (1838 : 407) Harvey states that " the South African fungi are an unexplored field " and lists no species.

About Miss Armstrong, an early collector of lichens, no details have been found, although several families of that name were resident in Natal in the second half of the 19th century. All that can be learned is in the introduction to Nylander's " Lichens of Port Natal ", published in 1869, in which he states that Admiral T. Jones (? T. A. Jones, Irish lichenologist) kindly sent a collection of lichens of Port Natal, communicated by M. Mackenzie and collected principally by Miss Armstrong.

During the 19th century, a number of scientific expeditions were sent out from Europe and America, several of them with the intention of circumnavigating the world ; a number of these expeditions made the Cape a port of call.

Charles Darwin was on board *H.M.S. Beagle*, which during 1832–1836 sailed to South America and islands of the Pacific to study the natural history of the countries visited. In 1833, the *Beagle* touched at the Cape, and Darwin made an excursion of some days' length

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* Letter in Cape Archives, in reply to a request from Mr. Quinzius of Namnbourg, Prussia, for information regarding his son Wm. Quinzius.

into the country. No South African species, however, are included amongst the cryptogamic plants collected by Darwin during the voyage of the *Beagle* and described by Berkeley in 1842. His conception of the vegetation of South Africa is briefly summarised in the "Journal of Researches during the voyage of *H.M.S. Beagle* (1837)": Dr. Andrew Smith (the zoologist with whom Drège visited Natal) informs me that, taking into consideration the whole of the southern part of Africa, there can be no doubt of its being a sterile country. On the southern and south-eastern coasts there are some fine forests, but with these exceptions the traveller may pass for days together through open plains, covered by a poor and scanty vegetation.

Expeditions which touched at the Cape during the years 1855–1875 made a definite contribution to the knowledge of cryptogamic plants.

Dr. Heinrich Wawra, 'Ritter von Fernsee' and ship's surgeon, accompanied three such expeditions; in 1857–1858, he was surgeon to the corvette *Caes. R. Carolinae*, which put in at the Cape. In 1868–1871, he sailed in the Austrian frigate *Donau* on a voyage round the world; this vessel touched at Hawaii, the Sandwich Islands and 'other parts of the world'. He was also in the ship in which the princes Philipp and August of Sachs-Coburg sailed round the world in 1872–1873. On all these voyages Wawra made collections of lichens, on his first voyage in the *Carolina* making fairly extensive collections at the Cape, which were described by Massalongo in 1861; lichens from the other voyages were described in 1876 by von Krempelhuber.

Another voyage round the world was undertaken in 1857–1859 by the Austrian frigate *Novara*. This frigate, which sailed from Trieste on the 30th April, 1857 and arrived at the Cape on October 2nd of that year, had on board, amongst other scientists Antony Tellinck, described as a horticulturist and referred to by Zahlbruckner (1932 : 243) as Jelinck, by Stizenberger (1890) as Jelinek; the botanist to the expedition was Dr. Edward Schwarz. The members of the expedition made excursions in the neighbourhood of Cape Town and into the interior to Paarl, Stellenbosch and Genadendal. On these excursions lichens were collected by Tellinck and his specimens were described by von Krempelhuber in 1870. The voyage of the *Novara* was not resumed until August 26th, 1858.

Ringgold's United States North Pacific Exploring Expedition arrived in Simon's Bay in 1883 and remained six weeks; C. S. Wright, who was on board made large collections of plants in the neighbourhood, only a few of these were cryptogams, and the lichens went to Tuckerman for identification; these included specimens of *Pertusaria ambigens*, *P. euglypta*, *Lecidea africana* and *L. melamplepa*.

An expedition left England in 1874 for Kerguelen Island, to observe the transit of Venus. The ship put in at Cape Town and was detained there from the last week in July till the first week in September. The Rev. A. E. Eaton was the naturalist attached to the expedition, and at the recommendation of Dr. Hooker he made collections of the lower cryptogamic plants in the immediate vicinity of Cape Town. The fungus specimens which Eaton collected were sent to Berkeley for examination and he enumerated (1876 a) 31 species, of which 24 were Hymenomycetes, 2 Myxomycetes, 3 rusts and 2 ascomycetes. He described 6 species as new, namely *Omphalia paurophyllus*, *Galera Eatoni*, *Marasmius ustorum*, *Panus quaquaversus*, *Boletus subflammeus* and *Daedalea Eatoni*. The list included *Morchella esculenta* found at Groot Schuur. Crombie, who enumerated Eaton's Cape lichens, states that the only locality examined was Table Mountain to which, however, he was able to make only a very few excursions. Unfortunately that to the summit was interrupted by mist, so that but few specimens were there gathered. Up to this time, the only separate list of Cape lichens was that of Massalongo (1861) who recorded 48 species, with a fair proportion of varieties, collected by Wawra, and in an appendix mentioned another 19 species which had been found by previous collectors such as Ecklon, Breutel, Drège and Zeyher. Crombie (1876 a) enumerated 96 species collected by Eaton, of which 34 were described by Nylander as new; there were only 12 species common to this list and that of Massalongo.

Until the middle of the 19th century, no great effort was made to improve the means of travelling from the sea coast to inland districts, and only the most intrepid would undertake

Plate 3.—The Montagu Pass, which replaced the old Cradock Pass. (After Newman.)

Plate 4.—The Montagu Pass, 1945. (Photograph by courtesy of the Royal Automobile Club of South Africa.)

long trips by ox-wagon, northward through the Karoo to the Orange River and beyond. Burchell had crossed the Orange River and reached Bechuanaland. Zeyher had travelled to Namaqualand and the Khamiesberg, pushing on to the valley of the Orange River, but in returning homewards he suffered much from want to water and lost many of his oxen. During his later trip in company with Burke, he travelled as far as the Magaliesburg, in what is now the Transvaal, a distance of some 1,000 miles from Cape Town. This was the farthest north of the earlier collectors.

In 1844, a system of public road-making was initiated, and as a result, travelling conditions were vastly improved. In the succeeding years roads were made, mountain barriers opened up and the larger rivers, including the Gouritz River, were bridged. This river, in common with many other South African streams was liable—in local parlance—to ' come down ' after thunderstorms ' up country ' ; it has been known to rise 20 or 30 feet in a few hours, rushing along with great velocity and sweeping off every obstruction in its path. In the wet season it may be days or weeks before such a river can be forded. The first mountain pass to be tamed was Cradock's Kloof ' over the very lofty mountains that lead to the Langeklocf ' (Thunberg). This was a mere track over a rugged, rocky ledge, with a steep precipice on one side of the mountain, between George and the Langekloof and to cross it with wagons was an undertaking of extreme peril (Newman 1855 : 171). This track was replaced by a beautiful and easy ascent of the mountain now known as the Montagu Pass.

The first railway was started in 1859, and after 1874, as a result of the general prosperity which followed the discovery and development of the diamond mines in Griqualand West, there was rapid construction of railway lines from the three principal seaports, Cape Town, Port Elizabeth and East London. The line from Cape Town reached Kimberley in 1885, and, as a result of the further stimulus provided in 1887 by the development of the Witwatersrand goldfields, the railways from the Cape were extended to the Transvaal. Railway construction in Natal was rather more tardy, but the line from Durban to Charlestown was completed in 1891 ; from Charlestown passengers completed their journey to the goldfields by coach, and a current advertisement extolled the advantages of sending goods by ' train and ox-wagon combined ', i.e. by rail to Charlestown and beyond by ox-wagon.

In such ways the path of the botanical collector was made smooth, and he had at least no difficulty in obtaining transport from the coast to the main inland centres.

In the later years of the century, botanical collecting was no longer a monopoly of collectors who came from Europe and after some years returned laden with their spoils. Several men interested in plants became resident in South Africa and continued, over a period of years, collections and studies of the plants of the districts wherein they resided. The names of Peter MacOwan and John Medley Wood will leap to the mind of the student of South African fungi.

John Medley Wood started life as a sailor, but after seven years of the sea, he went to Natal to join his father, who had also left the sea and was the first deputy sheriff of Natal. He arrived at Durban on May 4th, 1852. On landing, he tramped for some distance the sand and bush along the coast and then said he was not going any farther. He enquired of his companion how far it was to Durban and was told that they were then at the corner of the market square and that a house near by was his father's office (N. E. Brown, 1915). Such was Durban at that time. In his early years in Natal, Medley Wood traded with Zululand and turned his attention to farming. After some years he went to Inanda and there took up stock farming ; it was in that neighbourhood that most of his fungi were collected.

In 1879 there was war with the Zulus on the opposite side of the Tugela, and the disaster of Isandhlwana, where a column of British soldiers was cut to pieces by the Zulu hordes, caused residents in the vicinity, amongst whom was Medley Wood, to remove their wives and families to Verulam, where if necessary, they could be defended. Fortunately the gallant defence of Rorke's Drift, where 80 men held the position against several thousand Zulus saved Natal from invasion and the farmers were soon able to return to their homes. In 1875, Medley Wood had entered into correspondence with Kew, and in 1879, a list of his

fungi was published in Grevillea by Cooke, who sent the Agarics to be determined by the Hungarian mycologist, Kalchbrenner. Later collections were identified by these mycologists, who in 1881 published a paper on ' Natal Fungi collected by J. M. Wood, Inanda '; a few numbers were also included with fungi listed in Kalchbrenner's Fungi MacOwaniana. Under ' Fungi exotici ' in Grevillea for 1882, Cooke described 49 new species from a collection of 200 fungi found at Inanda by Medley Wood, who in the same year reported an outbreak of *Hemileia vastatrix* in the coffee plantations on the Natal coast. In the following years 1883–1889, Cooke continued to describe odd specimens of Natal fungi; in 1899, P. Sydow published a list of 41 Natal fungi, 8 of which he described as new, among the latter being the genus *Woodiella*, named in honour of the collector.

In 1882, Medley Wood was appointed Curator of the Botanic Gardens, Durban, and when the Gardens were separated from the Herbarium, remained Director of the Natal Herbarium until his death in 1915, in his 88th year.

Peter MacOwan arrived in Grahamstown in 1861 to take charge of a projected ' College ' and in that town he laid the foundations of his herbarium. He left Grahamstown in 1869 to take up the post of science tutor at Gill College, Somerset East, and it was from this centre that he explored the Boschberg and made his earlier collection of fungi and lichens. The first papers on his fungi were published by von Thuemen in Flora, during the years 1875–1878, and MacOwan also contributed material to von Thuemen's ' Mycotheca universalis '. The greater number of his fungi was listed and described as ' Fungi MacOwaniana ' by Kalchbrenner and Cooke in Grevillea during the years 1880–1882; a few went to Dr. Georg Winter and were published in his papers on ' Exotische Pilze ' in Flora, 1884, and Hedwigia, 1885.

MacOwan's lichens from the Boschberg were sent to Stirton at Glasgow, who described them in 1877 in ' Additions to the Flora of South Africa '. In this paper were also described lichens collected near ' Diamond Fields ' by Dr. John Shaw, who was headmaster of the school at Colesberg and later joined the staff of the South African College, Cape Town. Dr. Shaw was interested in botany, and the first paper read to the newly formed South African Philosophical Society was his ' Remarks on Roridula dentata one of the Insectivorous plants, illustrated by specimens '. Also included in Stirton's paper were specimens collected in the Cape and Transvaal by Dr. J. H. McLea; a few of these, collected at Lydenburg, are in Rehmann's herbarium.

While MacOwan was at Somerset East, contributions to the Fungi MacOwaniani were made by Richard Baur, a Moravian missionary stationed at Baziya in the Transkeian territory of Tembuland, who, in his earlier years, lived in Cape Town and was very friendly with Zeyher (MacOwan). Baur sent his specimens to MacOwan at Gill College, whence the rarer and undescribed species found their way to Kew. Another name associated with the Fungi MacOwaniani is that of William Tuck (called by Berkeley in error Julius Tuck) who was shipwrecked on the Natal coast in 1849, and for a time lodged with the German Naturalist Gueinzius. Later he made his way to the Cape, and, after working in various private gardens, in 1866 became curator of the Botanical Gardens at Grahamstown. Tuck's chief title to fame in the fungus world was the discovery of the remarkable phalloid described by Berkeley as a new genus, *Kalchbrennera*. Berkeley named the fungus *Kalchbrennera Tuckii* in honour of the collector, but as it had been recorded in tropical Angola as *Lysurus corallocephala*, the latter specific name has priority, and the fungus is now known as *Kalchbrennera corallocephala*.

In 1881, MacOwan was appointed Director of the Cape Town Botanical Gardens and Curator of the Cape Government Herbarium; these appointments he held until his voluntary retirement in 1905. His herbarium was left at Gill College, but as it was never used, in 1904 the Trustees were persuaded to present it to the Albany Museum, Grahamstown; it then contained 1,800 fungi. After his transfer to Cape Town, MacOwan had less time for the collection of fungi, although he added a number of specimens to his collections.

As Director of the Botanic Gardens, he had to give attention to horticultural matters and to economic botany generally, with the result that numbers of people from all parts of

South Africa came to him for advice. In 1887, the Cape Government acknowledged this work by employing him as official consultant in economic botany. " From that time he had to pour out a regular flood of reports, many of which were published in the Agricultural Journal of the Cape Colony, while hundreds were merely filed " (Schonland 1910). Amongst the published reports are the first papers written in South Africa on subjects connected with Plant Pathology, e.g. " The fungus enemies of apple and pear trees " and some on diseased trees in forestry plantations.

From Cape Town, however, MacOwan made considerable collections of lichens. He entered into correspondence with Dr. Hugo Lojka of Buda-Pesth, who asked him for material for his Lichenotheca universalis. After Lojka's death, MacOwan's lichens were handed over to Stizenberger, who described from them a large number of new species in his Lichenaea africana (1890). In addition to records from the earlier collectors, the Lichenaea includes reference to specimens collected by J. C. Breutel, a Swiss missionary who collected cryptogams at Genadendal, 1853–1854, and a large number of records, and some descriptions, of lichens sent to Europe by Dr. Wilms, a well-known collector of plants, who was for some years resident at Lydenburg in the Transvaal; descriptions of most of Wilms' lichens were published by J. Müller (Arg.) in his Lichenologische Beiträge, 1885–1888.

Several botanical collectors from Europe came to South Africa in the second half of the 19th century. Dr. Anton Rehmann, who travelled extensively in extra-tropical Africa in 1875–1880, collected a number of lichens which are listed by Stizenberger.

Friedrich Rudolf Schlechter, a German collector, first came to the Cape in October, 1891. In Cape Town he made the acquaintance of MacOwan and Marloth, his contemporaries and fellow enthusiasts. In the course of his travels he went to the Transvaal, visiting the Woodbush and Lydenburg and reaching the Limpopo in the north. After his return to Cape Town in 1893, he went up the west coast as far as the Olifants River and then eastward through Knysna and Humansdorp to the Transkei, Pondoland and Natal. He visited Durban, where he met Medley Wood and returned to Europe via Moçambique and German East Africa. In 1896 he returned to South Africa on a second collecting trip. Schlechter's main interest was the flowering plants, particularly orchids, but in the course of his travels in South Africa he collected a number of fungi. In 1895, P. Hennings described six fungi collected by Schlechter, which he found in the Köninglichen bot. Museum in Berlin, and in 1898 a further 15 fungi were sent to him for study; of the latter 9 were described as new species of which 7 were rusts. In 1899, P. Sydow described *Cystopus Schlechteri* found by Schlechter in the eastern Cape on *Salsola aphylla*. Hennings (1895 b) stated that more comprehensive fungus collections had for years been sent to Prof. Magnus, but no account of these can be traced. Apparently no complete list of Schlechter's fungi has ever been published, but from time to time new species, especially rusts, have been described from his collections.

P. Hennings also described in 1892 and 1895, a number of fungi collected by P. Bachmann in Pondoland during the years 1887–1888, and in his Plantae Pentherianae in 1900, a few fungi found in the Cape and East Griqualand and at Harrismith by P. Krook. Bachmann also collected a few lichens, which are mentioned in the 1895 supplement of Stizenberger's Lichenaea africana.

The collectors of South African fungi and lichens mentioned thus far drew most of their material from the Cape and Natal, only a few extending their activities to the ' diamond fields ' of Griqualand West and to parts of the Transvaal. Until the later decades of the 19th century, no information is available about cryptogams found in South West Africa nor in the Portuguese territories of Angola in the west and Moçambique in the east.

Dr. Friedrich Welwitsch, an Austrian botanist, who had spent a number of years in Portugal where he made extensive collections of plants and had charge of botanic gardens, was commissioned in 1851 by the Portuguese Government to explore the Portuguese possessions on the west coast of Africa (Hiern, 1896). He left Lisbon in 1853, and at first made Loanda the base of his operations, exploring the maritime region and later the mountainous district of Golungo Alto with its tropical forests, then travelling south-west through the

park-like vegetation of the Pungo Andongo. His health became seriously affected by his prolonged stay in these tropical regions and he was forced to return to Loanda. When his health had been somewhat restored, Welwitsch proceeded by sea to Mossamedes. He extended his journey southward as far as the bay of Tigers (lat 17°) and working inland approached the elevated plateau called Huila. His later explorations during 1859 and 1860 were thus conducted within the region regarded for the purposes of this review as ' southern Africa ', and fungi and lichens collected in the districts of Mossamedes, Huila and Cubango, south of the 15th parallel have been listed.

Welwitsch's collections form the best and most extensive herbarium of the flora of tropical Africa it and consists of about 5,000 species, not only flowering plants, but valuable collections of cryptogams. The fungi were described by Welwitsch and Currey in the Fungi angolenses (1868) and by Annie Lorrain Smith (1898, 1901), the lichens by Wainio (1901).

During the years 1884–1887, Hans Schinz conducted his " Explorations through the German territory of Great Namaqualand and Hereroland to the river Cunene, the Lake N'gami and the Kalahari " (Schinz, 1891). In his account of these explorations, he gave a general account of the flora of the country, but his botanical collections were studied by a number of German botanists and the results published elsewhere. Fayod (1890) described 8 Agarics, of which 2, *Naucoria pediades* and *N. semi-orbicularis*, are cosmopolitan ; the rest were described as new species. There seems to be no further publication on Schinz' fungi, but a few parasitic species, e.g. *Puccinia desertorum* Syd. on *Evolvulus alsinoides*, collected near Okahandja, have been found on his flowering plants. His lichens, amongst which a number of new species were found, were described by J. Müller (Arg.) in Flora (1888) and by Wainio (1900).

In 1899, a German expedition under the leadership of H. Baum set out from Mossamedes, to explore the natural resources of a strip of territory, newly acquired on the southern border of Angola. This expedition known as Kunene-Sambesi expedition—covered part of the maritime region explored by Welwitsch, but travelled farther south as far as the Habungu river ; inland it penetrated as far east as the Zambesi river, for the most part following the course of the Kunene, Kuito and Kuando rivers, and apparently skirting the southern limit of the Huila plateau. This expedition brought back to Europe about 1,000 plant specimens, including 53 species of fungi, of which 36 were described by P. Hennings (1903) as new.

Karl Dinter, who went to South West Africa in 1897, was Government Botanist in the territory 1900–1914 ; he apparently went back to Germany in 1914, but returned later and continued his botanical explorations, some of which were undertaken in company with R. Marloth. In his account of the flora of South West Africa (1909) Dinter states that, owing to the dry nature of the country, the fungus flora is poor. He mentions an *Agaricus* growing on termite hills, common in wet seasons and apparently edible, a *Geaster* and other fungi belonging to the genera *Catastoma*, *Tulostoma* and *Polyplocium*. At Okahandja he found *Broomeia* and a few species of *Polyporus*. In a later publication (1912), he describes the *Agaricus* mentioned above, but distinguishes it only by its native name ; he also mentions a species of *Terfezia*.

The Percy Sladen Memorial Expedition, 1910–1911 and 1912–1913, went northwards from the Cape and via Warmbad into Great Namaqualand ; it also travelled from Mossamedes eastward to Huila, then south-east to Fort Humbe, following part of Welwitch's route. The new fungi collected in South West Africa by H. H. W. Pearson, the botanist to the expedition were described by Pole Evans (1915 a).

Later collections in South West Africa were concerned mostly with lichens. Zahlbruckner (1926 b) has described a number of lichens collected by ' Apotheker Fincke ' on Haifischinsel off Lüderitzbucht and in the neighbourhood of Windhoek. Magnusson (1933 : 13) mentions one I. Örtendahl, garden inspector of the Botanical Gardens, Uppsala, who made a journey through Great Namaqualand in 1931, and brought home a rich collection of lichens from the deserts. Of special interest were a number of yellow species of *Acarospora*,

yellow species being as numerous in Africa as brown species in Europe ; the latter are rare in Africa.

On his Zambesi expedition, which lasted for over 5 years, and started from the east coast to explore the Zambesi River, David Livingstone was accompanied by John Kirk in the dual rôle of physician and naturalist. Only one or two odd records of cryptogams collected by Kirk during this trip can be traced, one from Lupata, another from Rovuma River. It is possible that fungi and lichens were amongst the specimens lost when, in 1860, Kirk's canoe was upset as he was traversing a narrow gorge where the river current was swift.

Apart from Kirk's few specimens, the earliest records of the fungus and lichen flora of Moçambique were the work of two missionaries.

Henri Alexandre Junod, who spent 30 years in southern Africa, entered the service of the Swiss mission and arrived in Moçambique in 1889. In addition to his educational and ethnological work, he was keenly interested in entomology and botany and made extensive and valuable collections of insects and plants. His name is associated with that of his friend Hans Schinz in the account of his collections published in the Bull. de l'Herb. Boissier (1899, 1903) and the Memoires de l'Herb. Boissier, No. 10, 1900. These papers are concerned mostly with his flowering plants, but a few ferns are listed, and, in one paper, 6 lichens. A number of his Moçambique fungi, mostly from Rikatli, about 20 miles north of Lourenço Marques, were sent to Pretoria ; they include a number of species of special interest including two collections of the fungus described by Pole Evans and Bottomley as *Diplocystis Junodii*, now considered identical with *Broomeia ellipsospora* v. Höhn. After leaving Moçambique, Junod was stationed for years at Shilowane, in the Low Veld area of the northern Transvaal ; this was fever country, and holidays were spent in a hut on Mount Mamotsuiri known as the 'Sanatorium'. Here, in 1900, he collected a number of lichens, which were examined by Steiner, who erroneously placed the locality in the Cape Province. Steiner (1907) listed 33 lichens of which 3 species and 7 varieties were described as new.

Father Ladislau Menyharth was a Jesuit missionary. Always interested in natural science and especially in botany, his hope for 20 years was to be sent to a mission station in Africa. It was not until 1889 that he embarked for the east coast of Africa ; he was stationed at Boroma on the Zambesi during the years 1890-1894 and it was from this centre that most of his collections were made. He was then transferred to Zumbo, higher up the river, at the junction of the Loangwa River with the Zambesi ; here he died of fever in 1897. Father Menyharth made extensive collections of flowering plants and cryptogams ; five of his fungi were listed by P. Hennings (1906) including two rusts which were named *Aecidium Menyharthi* and *Uromyces Schinzianus*. He was apparently more interested in lichens, of which 55 species and varieties were listed by Wainio.

Le Testu, a French botanist, better known for his collections in tropical Africa, sent a small number of Moçambique fungi to Maublanc, who described them in 1906. Later, in 1908, C. W. Howard, who was appointed entomologist at Lourenço Marques collected a number of fungi, mostly at Umbelusi, Quelimane, and up the Maputo and Zambesi rivers. Some of these were listed by H. & P. Sydow (1909) in Annales Mycologici, where 6 new and 18 known species sent by Howard were mentioned ; he left Moçambique in 1911.

At the beginning of the 20th century, a new chapter in the history of South African mycology was opened. In the Transvaal Department of Agriculture established in 1903, the agrostologist and botanist, Joseph Burtt Davy, soon had to deal with numerous enquiries about plant diseases, for which he had to ask the assistance of Geo. Massee at Kew. The chief problems which came to his notice were connected with cereal rusts and with the coffee leaf disease caused by *Hemileia vastatrix*, which had been destructive on the Natal coast since it was detected by Medley Wood in 1883 and was now wiping out the coffee plantations in the northern Transvaal. He soon realised the desirability of appointing a plant pathologist, who could devote his time to studying the life histories of parasitic fungi and carry on practical experiments with fungicides.

With these problems in view, enquiries for a suitable candidate inevitably led to Marshall Ward, then occupying the chair of Botany at Cambridge, whose reputation as a mycologist had been established by his investigation in 1880 of the cause of the coffee leaf disease in Ceylon, and whose later work was largely concerned with the rusts of cereals and grasses. One of Marshall Ward's most brilliant students at this time was Illtyd Buller Pole Evans, who, since 1903, had been working in the Botany school on problems connected with the cereal rusts. To him was offered the post of mycologist in the Transvaal Department of Agriculture, and he arrived in Pretoria on July 28th, 1905. He at once attacked the cereal rust problem and made a large number of cultures. The absence of any information about alternate hosts of the heteroecious rusts in this country and the fact that *Hemileia* species occurred on indigenous hosts, early convinced him of the necessity for a survey of fungi on native plants and for a general study of the cryptogamic flora of the country. In his first year, he collected 200 specimens, which formed the nucleus of the mycological herbarium at Pretoria. At this time there were three small mycological herbaria in South Africa ; the Albany Museum, Grahamstown and the South African Museum, Cape Town each had a rather incomplete set of MacOwan's fungi and Medley Wood's collections were housed in the Natal Herbarium, Durban.

With all his energy and enthusiasm it was impossible for Pole Evans to cope single-handed with the numerous problems which were brought to him, and in 1908, the author had the honour of being appointed his first mycological assistant. The third member of the staff of the mycological section at this time was a clerk, P. J. Pienaar ; he became interested in fungi and made a very comprehensive collection on Garstfontein, a farm in the Pretoria district. A few years later, he was further pressed into the service of plant pathology and made some inspection trips over a wide area ; from all these he brought back interesting specimens for the herbarium.

When, in 1910, the Union of South Africa became an accomplished fact, a separate Division of Plant Pathology and Mycology was formed for the investigation and control of plant diseases throughout the four provinces. The increased scope of the work obviously called for an increase of staff. P. A. van der Byl was appointed in 1911, and in July 1913,, Miss A. M. Bottomley joined the staff. Miss Bottomley took charge of the herbarium, and under her care and with the loyal co-operation of members of the staff, it developed rapidly. During the 12 months after her appointment 2,651 specimens were registered and by 1918 there was 11,369 fungi in the collection. Medley Wood presented most of his fungi to the Government and after his death, these were incorporated with the collections at Pretoria ; an incomplete set of MacOwan's fungi was purchased from Dr. Schonland on his retirement from the curatorship of the Herbarium of the Albany Museum. Many important sets of exotic fungi have been acquired by purchase or exchange. At the end of 1945, the Cryptogamic Herbarium at Pretoria housed over 61,200 specimens, of which about 35,500 are fungi, including a major part of the South African fungi listed in this publication. The lichen collections, 2,194 numbers, are comparatively poor and most of the South African specimens await identification.

While building up his staff and attending to all the work involved in the investigation and control of plant diseases, Pole Evans did not neglect his first love—mycology. He continued his work on the cereal rusts and his search for the aecidial forms of the heteroecious species. He studied the life history of the fungus on *Rhamnus prinoides*, which had been variously described as *Aecidium Rhamni* f. *Rhamni prinoidis* by von Thuemen, as the aecidial form of *Puccinia coronata* by Kalchbrenner and as *Aecidium elegans* by Dietel, and found that it was a species of *Endophyllum* which he named *Endophyllum MacOwani ;* the aecidium of *Puccinia coronata* is not known in this country. He also made collections of rusts on other indigenous plants and published his first paper on these fungi, " The species of Puccinia on Compositae " in 1916.

In 1912, he discovered and described a fungus, *Isaria Psychidae*, causing a disease of the bagworm (*Acanthopsyche Junodi*) which is a serious pest in the Natal wattle plantations. The fungus was grown in bulk and the spores disseminated in the plantations, but this

attempt at artificial infection of the insects was not successful as suitable climatic conditions were seldom present when the inoculum was available.

At the request of the Governor General of Moçambique, he left Pretoria on 29th August, 1913 to visit the coconut plantations of the Campanha da Zambesia in the district of Quelimane, to study and report on the diseases affecting palms ; he returned on September 25ht. The trip was briefly mentioned in his annual report, but a full account of his investigations into coconut palm diseases was not published until 1918. No further studies of plant diseases in Moçambique were made until 1932, when J. G. A. Cardoso was appointed plant pathologist in the Department of Agriculture at Lourenço Marques ; he has published a number of papers on phytopathology.

During the next few years, until 1919, Pole Evans continued to publish mycological papers, such as those describing *Diplodia natalensis*, a variety of *Kalchbrennera Tuckii*, *Terfezia* ' a truffle from the Kalahari ' and, in collaboration with Miss Bottomley, studies on the genera *Broomeia* and *Diplocystis*. About this time, the increasing pressure of administrative work made itself felt and other interests, such as the botanical survey and the study of pasture grasses, made great inroads on his time. He was unable to continue his study of Sou thAfrican fungi, but the work was continued by members of his staff, some of whom had worked with him in the early days and had been fired with his enthusiasm.

In 1921, the publication " Bothalia ", so named after the first Union Premier and Minister for Agriculture, General Louis Botha, was launched as a medium for the publication of papers based on material in the National Herbarium, with Pole Evans as its editor. In this publication will be found records of the work of the staff on several groups of fungi, including phycomycetes, ascomycetes, rusts and Fungi Imperfecti.

Amongst those who joined the staff after 1918, several were interested in fungi. Miss Mary Thomson (now Mrs. Pole Evans) was appointed in 1919 ; she studied the life history of the maize rust with its aecidium on *Oxalis corniculata*, and worked out the life cycle of a heteroecious species with teleuto-sori on an indigenous grass, *Tristachya*, and aecidia on the ' wild sweet pea ', *Sphenostylis angustifolia*—the only work of this kind which has been done in South Africa.

V. A. Putterill in 1918 published notes on the morphology and life history of *Uromyces Aloes*. In the same year a mycological laboratory was opened in Cape Town, of which he was put in charge, and there studied diseases of plants in the South-western Cape. This work was later taken over by the Stellenbosch-Elsenburg College of Agriculture, but, transferred to the fruit inspection service, Putterill retained his interest in fungi and is responsible for records of a number of organisms associated with fruit decay or found in packing sheds.

V. A. Wager, appointed in 1926, has made studies of South African Pythiaceae, and is now stationed at Durban where he has prepared specimens of a number of fungi found on the Natal coast. An appointment was made in 1934 of a mycologist to study fungi attacking locusts, as swarms of these insects were particularly destructive at this time. E. E. Schaefer, who joined the staff in this capacity, made a study of *Empusa Grylli* and other locust fungi, and still maintains his interest in fungi attacking insects.

Here may be mentioned S. H. Skaife, then Inspector of Science in the Cape Education Department, who published several papers on entomogenous fungi during the years 1920–1925, and A. McMartin, on the staff of the experiment station of the Natal Sugar Association, who published the results of his studies of locust fungi in 1935.

Thus far the appointment of P. A. van der Byl in 1911 has been no more than mentioned. At first he studied a number of plant diseases, including the dry rot of maize caused by *Diplodia Zeae*, but he soon became interested in the larger fungi, especially the Polyporaceae found on indigenous trees. In 1915, he went through the forests of the eastern Cape Conservancy in company with the Conservator of Forests, J. D. M. Keet ; extensive collections were made, which provided material for his later work on the Polyporaceae. After Medley Wood's death in 1915, it was decided to establish a phytopathological laboratory in connection with the Natal herbarium and van der Byl went to Durban to take charge there.

During the next few years, he studied fungi affecting sugar cane and those causing deterioration in the sugar refineries. Later and more extensive studies along these lines have been made by McMartin (1937–1945) at Mount Edgecombe, the experiment station of the Natal Sugar Association.

In 1921, van der Byl was appointed Professor of Plant Pathology at the University of Stellenbosch, where he continued his studies of the larger fungi, and later became Principal of the Stellenbosch-Elsenburg College of Agriculture. At Stellenbosch he found a willing co-adjutor in Miss A. V. Duthie, lecturer in botany, who had for some years been collecting Myxomycetes and had published lists of South African species. With her help, van der Byl made further collections, mostly in the neighbourhood of Stellenbosch and in the Knysna forests. Most of these fungi, and those which he had collected earlier, went to C. G. Lloyd in America for identification; Lloyd remarked on the excellent and rare specimens of Gastromycetes contributed by Miss Duthie. In his later years, van der Byl became interested in lichens and made extensive collections, which, as well as his fungi, he bequeathed to the University of Stellenbosch.

As time went on, a group of van der Byl's students took up mycological work and made studies of fungi in the south-western Cape; amongst these may be mentioned Len Verwoerd, who succeeded van der Byl as Professor of Plant Pathology, B. J. Dippenaar, who occupies a similar post in the University of Pretoria and S. J. du Plessis.

In 1923, F. Eyles from Southern Rhodesia spent six months at Stellenbosch working under van der Byl. Eyles had for many years been interested in plants, and published a record of plants of Southern Rhodesia in 1915; in this only four fungi were listed, and these probably because they had been detected on flowering plant specimens. Soon after, he gathered a number of fungi, especially on a trip to Umtali in 1919. After his return to Salisbury from Stellenbosch, he began serious work on mycology and plant pathology in the Department of Agriculture, and in 1926 published a preliminary list of plant diseases. In March, 1928 he retired from the Department and was appointed Curator of the Queen Victoria Memorial Museum. His work in the Agricultural Department was carried on by J. C. F. Hopkins, who had joined the staff in 1926. In 1932, Eyles compiled a list of fungi of Southern Rhodesia, which he had collected and recorded, but unfortunately did not live to have this published; his records are incorporated in the list of fungi of Southern Rhodesia published by Hopkins in 1938 and his specimens are to be found in the herbarium of the Department of Agriculture at Salisbury.

In Southern Rhodesia valuable work, particularly on fungi associated with Citrus, has been done by G. R. Bates, who, for a number of years, was plant pathologist at the Mazoe Citrus Experimental Station and has now joined the Department of Agriculture at Salisbury.

The year 1930 saw the inception on the Witwatersrand of the first South African Institution in which industrial mycology was to play an important part. The brewing and wine-making industries have made no study of the organisms employed and little is known of the flora of kaffir beers or of the 'wild yeasts' used by the natives in various fermentation processes: nor has any systematic study been made of the organisms causing wastage in commercial products.

In 1929, Miss R. Lurie started work at the University of the Witwatersrand on organisms causing decay in mine timbers. Specimens, both of untreated timber and timber treated with zinc sulphate, were sent up from different mines, and it soon became obvious that the zinc sulphate treatment was not sufficiently effective against certain types of organisms. Experiments on a commercial scale were inaugurated and a preservative process involved which was an improvement on the old method. In 1934 a laboratory for this work was established at the Exchange Yard (Pty.), Ltd., and there, in 1935, experiments were extended to include the preservation of fabrics, such as airfiltration bags, blanketing, canvas, hessian and coconut matting. As a result of Miss Lurie's preliminary work, the Transvaal Chamber of Mines established the Timber Research Laboratory. Miss D. Weintroub, and later Miss M. W. Simpson were appointed to assist in the mycological work. Miss Lurie married in

1936, and when she was unable to continue full-time work, for 5 years acted as consultant to the laboratory, again taking charge in 1942 until the end of 1945.

An extract from her report as consultant in 1939 indicates the scope of the work : " The importance of the mycological aspect of combatting the disintegration of wood and fabrics cannot be over-emphasised, as, without a knowledge of the causes of destruction, satisfactory control measures cannot be adopted. A study has been made of the more commonly occurring fungi, but the problem has been complicated by the discovery that a large number of organisms thrive under the conditions prevailing underground. Thus a considerable time must elapse before all the organisms already established in culture from various sources can be subjected to detailed examination. To add to the complexity of the situation, research into the morphology and biology of some of the fungi suggests the existence of several strains of the same organism, some of which are more active than others in their attack on timber. This is naturally of importance in studying the toxicity of preservatives, when the most virulent strain must be chosen for test purposes. With the variation in depth of the Witwatersrand mines the resulting problem of ventilation with its concomitant factors of temperature and humidity, has a direct bearing on the occurrence and distribution of fungal flora. The variety of materials used for mining purposes, which are liable to destruction by fungi, calls into play specific action by different organisms, and this perhaps in some measure accounts for the large numbers found underground. One of the problems still under investigation at the laboratory is the determination of the organisms responsible for the destruction, not only of different species of timber, but also of the many different fabrics used in the mines. The physical and chemical nature of the material will determine the organism that will destroy it. For instance, the coconut matting is not attacked by the same fungi which disintegrate cotton, nor do the destroyers of flannel break down other fabrics. Much work still remains to be done in this connection, as the technique for the isolation of the causal organisms of decay in fabrics such as coconut matting and hessian is extremely difficult." In 1940, it was reported that about 1,460 organisms had been collected and over 1,000 cultured.

Amongst the enthusiastic collectors who, since the beginning of the 20th century, have made material contributions to the knowledge of South African fungi, Miss Alice Pegler has a place of honour. Miss Pegler lived for many years at Kentani, where she made a systematic study of the flora of the district and prepared representative sets of plants for her herbarium of over 2,000 specimens, and for distribution. During the years 1911–1915, she collected a large number of fungi ; 77 species from her collection were listed by Pole Evans and Bottomley in 1918, and later study added to this number.

In Southern Rhodesia, C. F. M. Swynnerton, a very keen all round naturalist, perhaps best known for his researches in connection with the tsetse fly problem, made collections of birds and plants in the Melsetter district, then known as Gazaland, and sent a large collection of plants to the British Museum. These were mostly from the Chirinda forest, a most interesting patch of residual rain forest ; his collections included some fungi and lichens.

Several other collectors who have made contributions to the cryptogamic herbarium at Pretoria are mentioned elsewhere. W. G. Rump has been on the staff of the Natal Museum since 1904 ; after gaining considerable experience in collecting arachnids, insects, myriopods and mollusca in the forests, some of which have been described in the Annals of the Natal Museum, on the advice of the Director widened his activities to include fungi. He has made extensive collections of the larger fungi, especially in the forests near Maritzburg. Gideon Joubert, a farmer of the Cape Province, collected a number of particularly interesting fungi between 1916 and 1936. The fungi which he found in the Albert District, included *Polyplocium inquinans*, two species of *Phellorina*, *Battarea Tepperiana*, *Kalchbrennera corallocephala*, a species of *Phallus* and some Agarics ; from Matatiele he sent some *Geasters* and *Tulostomas*. L. C. C. Liebenberg made interesting collections in the eastern Transvaal, A. O. D. Mogg in the grasslands of the Transvaal and Natal. The contributions made by J. P. H. Acocks are remarkable for the rare Gasteromycetes which he found first in the Cape

Peninsula in his student days under the direction of Miss E. L. Stephens, and later in the arid region of Griqualand West.

South Africa in the 20th century still attracts botanical travellers from Europe. When the British Association for the Advancement of Science held its meetings in South Africa in 1905, one of the visiting members was W. N. Cheesman, an amateur Yorkshire naturalist, who took a keen interest in fungi. He found a number of fungi, chiefly near the Victoria Falls; these were identified by Massee.

Other botanical collectors known to have visited this country, were interested chiefly in lichens. J. Brunnthaler, conservator of the botanical museum of the University of Vienna, visited Africa in 1909 and made extensive collections of lichens and hepatics. He journeyed through the south-western Cape, through Worcester to the Karroo, then via Swellendam to Port Elizabeth; other localities visited were Van Reenen's Pass, Victoria Falls and Bulawayo; thence he travelled through Moçambique to tropical Africa. Brunnthaler handed his lichen collections to Zahlbruckner, who (1926 b) described from them a large number of new species.

During the years 1929–1930, O. A. Hφeg, curator of the museum at Trondheim, travelled through South Africa. His fungi were examined by Miss Wakefield (1936). The lichens, which made up by far the greater part of his collections, were he stated " under examination, in so far as it has been found possible to find specialists able and willing to undertake the task for the various groups ". Unfortunately no published record of Hφeg's lichens has been found with the exception of those listed in the first two volumes of Motyka's monograph of the genus Usnea.

It is also unfortunate that it is not possible to include in this record the work of S. Garside, who for years has been making a study of South African lichens and has built up a valuable herbarium. During the past years he has been making comprehensive collections from MacOwan's stamping grounds in the vicinity of Cape Town and endeavouring to establish MacOwan's types. His studies of South African lichens, with the exception of a short paper on *Siphula tabularis*, have not yet been published and thus are not available for the purposes of this record.

IV.—FUNGI OF SPECIAL INTEREST FOUND BY EARLY COLLECTORS.

Of the fungi which attracted the attention of the early travellers and collectors, several of particular interest belong to the series of the Gasteromycétae named by Fischer (1933 : 109–119) the Podaxineae, a series which comprises the families Secotiaceae and Podaxaceae. The Secotiaceae are a very interesting family; they have characters suggesting the Agarics, and characters apparently connecting them with the Hymenogastraceae, which they resemble in later stages of development.

The Rev. M. J. Berkeley (1843 a : 200) in his introductory remarks to his paper " On two Hymenomycetous Fungi belonging to the Lycoperdaceous group " writes as follows :—

> " Few fungi have as yet been received from South Africa; but, from the collections hitherto made in that country, it is evident that far the most striking feature is the variety of forms under which the Lycoperdaceous group presents itself to the notice of the mycologist. Not only the common European genera and even species occur, while the curious Battarea, represented by the British species accompanies them; but we have *Podaxon carcinomatis* on the ant hills, differing altogether in habit from any European species."

Secotium Gueinzii, the type species of the genus Secotium, was briefly described by Kunze (1840 : 322) and in more detail by Berkeley (1843 a : 201) whose illustration is reproduced. [Plate 5 (*a*)]. It was found by Gueinzius in 1839 " in arenosis Promontorii Bonae Spei " and shortly afterwards, also in 1839, by Zeyher at Uitenhage. *Secotium Gueinzii* was not found again for nearly one hundred years; in December, 1932, it was collected at Brackenfel, near Bellville in the Cape Province by J. P. H. Acocks. Some 25 species of Secotium have been described, mostly from Australasia; only three species have been recorded from South

a

b

Plate 5.—(*a*) Secotium Gueinzii Kunze (after Berkeley, 1943 a, Tab. V).
(*b*) MacOwanites agaricinus Kalchbr. (after Berkeley 1876 b & c).

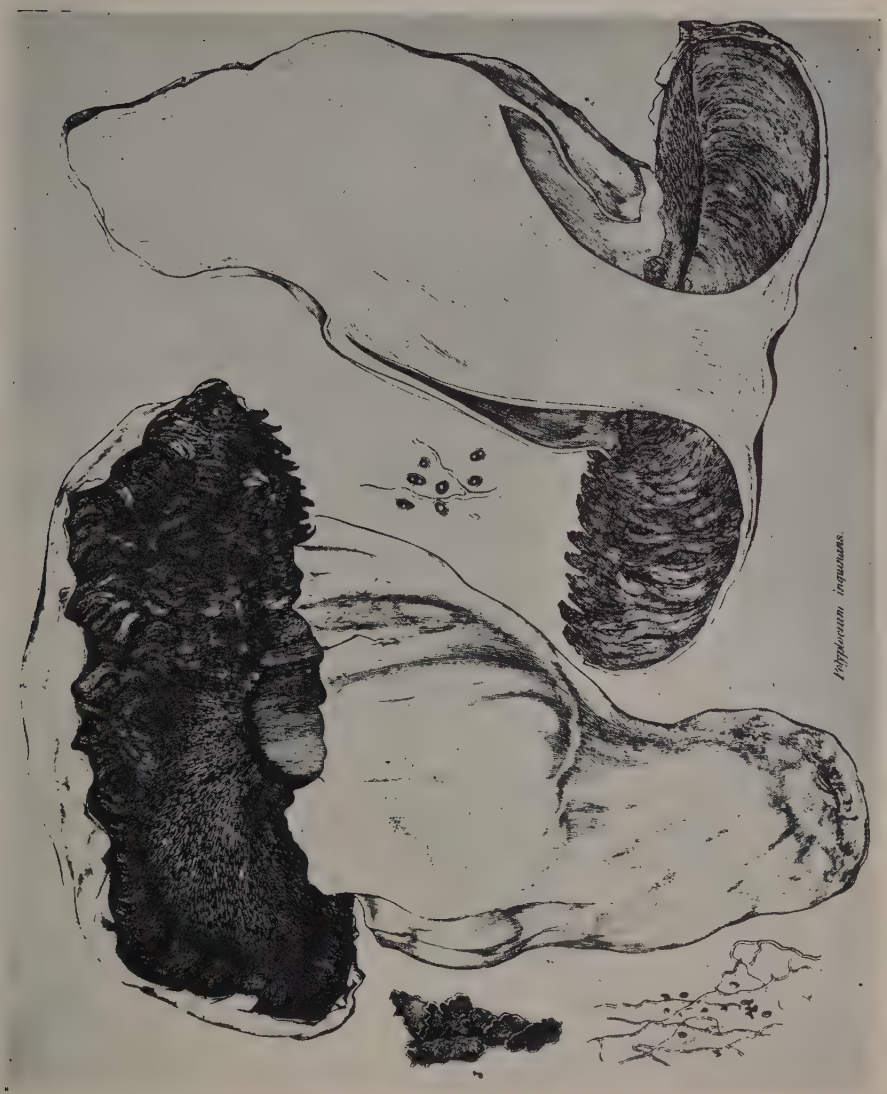

Plate 6.—Polyplocium inquinans Berk. (after Berkeley, 1843 a, Tabs. VI–VII).

Africa. A species of the nearly related genus Gyrophragmium, *G. Delilei* Mont., has also been collected in recent years by Acocks at Bellville and in the arid regions of Kimberley, Kuruman and Barkly West.

The second of the 'Two new fungi' described by Berkeley (l.c.) was *Polyplocium inquinans*, and his excellent illustration is reproduced here. The type was found by Burke and Zeyher on the banks of the Orange River, and this rare fungus was not recorded again for 80 years, when Dr. Pole Evans, in 1919, found it near Lake Chrissie in the Transvaal and again, in 1924, at Armoedsvlakte. The only other collector who has added to our knowledge of this remarkable fungus is Gideon Joubert, a farmer of the Cape Province, a keen observer and one intensely interested in plants. From 1918 he was farming at Knapdaar in the Burghersdorp district, where he found *Polyplocium inquinans* on several occasions. He sent specimens to Pretoria in 1921 and in 1936, and saw others in too advanced a state of development to send by post. On one occasion he found two particularly fine specimens, one of which measured 17 inches in diameter. His son also saw this fungus, growing at Vlei Draai near Franklin in East Griqualand, but did not know that it was of any particular interest and did not collect it.

A third fungus of this group is *MacOwanites agaricinus* Kalchbr. The genus was first named MacOwania (Berkeley 1876 a : 249) and (1876 c : 785), but a change of generic name was necessary as Professor Oliver had already published a genus of Compositae under that name. This fungus is known only from the type collection made by MacOwan at the foot of trunks of Acacia Karroo in fields near Somerset East. Kalchbrenner (1882 a : 107) says that *MacOwanites agaricinus* is the size of a small potato and has a strong odour of garlic. The type is *MacOwan* 1211, of which there are several slices in the South African Museum, Cape Town, one slice in the National Herbarium, Pretoria, a slice at Kew and another slice at Upsala (Zeller & Dodge, 1937 : 636). At Kew there are two water colour drawings, showing this fungus with pileus buffy brown, gleba isabella colour, and stipe white, with cut surface cartridge buff or a little darker below. These drawings seem to have been based on another specimen, perhaps the one at Upsala, which is much less expanded than those in other herbaria ; they were reproduced in black and white by Berkeley (l.c.) [Plate 5 (*b*)]. Dr. Pole Evans sent a photograph of Berkeley's illustration to Gideon Joubert, but he was unable to find anything resembling it, and the fungus has not been found by any other collector. Only one other species has been assigned to this genus, it was found in Oregon and California and named *MacOwanites magnus* Parks.

Familiar to every traveller through South Africa in the summer and autumn are the sporophores of Podaxis, which stand like sentinels on termite hills in many parts of the country. (Plate 7.) They could not fail to attract the attention of the early travellers and collectors.

The first specimen to be sent to Europe was collected by Thunberg and described by the younger Linnaeus (1781 : 453) as follows :—

> "*Lycoperdon carcinomalis* clavatum stipite cylindrico recto.
> Habitat in Cap. bonae spei, D. D. Thunberg.
> Fungus statura Agarici pileo nondum a stipite distincto clavatus.
> Clava ovata-oblonga, basi dehiscente tomento et farina fusca.
> Stipes cylindricus fibris rectis.
> Pulvis in Capite bona spei ad Ulcera cancrosa in usu est."

The specific name used by Linnaeus evidently had reference to the supposed efficacy of the powdery mass of spores in the prevention of carcinomatous ulcers. In his Prodromus (1800 : 182) and Flora capensis (1823 : 756), Thunberg states : "Crescit in summis apice acervorum Termium argillaceorum. Usus : Pulvis contra ulcera cancrosa adhiberi dicitur." Pappe (1850 : 31), the first colonial botanist at the Cape, describes the Podaxis as "*Scleroderma carcinomale* Pers., a mushroom of an oblong, club-shaped form, which grows gregariously on ant hills. It contains a blackish powder (seeds) which is used occasionally for curing carcinomatous ulcers."

Burchell's collections of fungi unfortunately have not been traced, but in the Gubbins Library (University of Witwatersrand) there is an admirable drawing (No. 606) labelled "*Lycoperdon formicarum—Lycoperdon carcinomale* Syst. Beg. Intus scatens pulvere nigro-fusco". I am indebted to Mrs. Helen M. McKay, author of several papers on 'William John Burchell, Botanist' for drawing my attention to this drawing, and to the trustees of the Gubbins Library for permission to reproduce it. (Plate 8).

Fries changed the name of this fungus to *Podaxon carcinomalis*. It was collected again by Drège "inter Omtendu et Omsamculo in campis collinis herbosis" and by Zeyher "on ant hillocks, Uitenhage, *Zeyher* 99". By this time, Berkeley (1843 b : 522) refers to it as "the old species *P. carcinomatis*", and points out (1843 a : 200) that "the specific name is so spelt in the Linnaean Herbarium where the original specimen remains in excellent preservation."

Recent research (Morse 1933 : 27) identifies *Podaxon carcinomale* with *P. pistillaris*; the latter was described in 1771 as *Lycoperdon pistillare* Linn. from a specimen collected in India. This specific name therefore has priority as also the generic spelling Podaxis over Podaxon. The fungus is therefore now known as *Podaxis pistillaris* (Linn. ex Pers.) Fr.; it is a widely distributed species, found intermittently in a belt encircling the earth approximately within the fortieth parallels north and south (Morse 1933 : 1).

Some Lycoperdineae of special interest were also found by early travellers and collectors.

In 1838, there travelled in South Africa a Quaker missionary, James Backhouse, who, being a nurseryman of York, England, was naturally interested in plants. In the Albany District he collected a specimen of a curious fungus which was described by Berkeley (1844 : 193) as *Broomeia congregata*, new genus and species. This interesting fungus may be described as a compound Geaster, an aggregate of a varying number of individuals surrounded by a common outer peridium. The type has over 150 individuals; Pole Evans and Bottomley (1919) found specimens with the number of individuals varying from 60 to 900.

Several mycologists have mentioned the characteristic odour of this Broomeia: "When fresh or moistened, it exhales a strong scent of aniseed" (Berkeley l.c.); "Non oculis sed naso detexit monet MacOwan" (Kalchbrenner 1882 : 108); "Fungus insignis caryophylli odore" (v. Thuemen 1876 : 424). Later Pole Evans (1917 : 4) wrote "The plants emit a strong, though somewhat pleasant smell of benzaldehyde, and their presence in the bush can be frequently detected from the odour emitted."

Backhouse reported that the fungus occurred on rotten wood, but MacOwan pointed out that it occurred under Acacias, and later observations indicate that it is usually found close to the foot of such trees.

MacOwan was evidently very much interested in *Broomeia congregata*, which he collected under Acacias on the banks of the Klein Vis Rivier near Somerset East and also not far from the Boschberg Mountains. It was also found at Inanda by Medley Wood. Portions of all these collections are to be found in Kew Herbarium and there is a portion of the Boschberg collection in the Herbarium of the South African Museum, Cape Town. In 1877, in the Cape Monthly Magazine, MacOwan published an "Inquiry for two Cape Fungi, *Broomeia congregata* Berk. and *Podoxan carcinomatis* Fr." The fungi were briefly described and an appeal sent out for specimens. In 1882, Broomeia was listed in Fungi MacOwaniana (Kalchbrenner l.c.).

This fungus was also found in Damaraland by Capt. Eën; he was a Swedish master mariner who, in 1866, joined the traveller Charles John Andersson, his fellow countryman, whose field was the northern part of what is now South West Africa, between the Swakop and Cunene Rivers (Wallis 1936 : 354). On more than one occasion Capt. Een took charge of Andersson's wagon train and he conducted a trading expedition as far north as Ondonga (Wallis 1936 : 361). In the course of his travels he must have become interested natural history for "in 1879, Capt. Eën brought back from Damaraland a few specimens *Broomeia congregata* which he divided between the British Museum and Kew. They were

Plate 7.—Podaxis pistillaris (Linn. ex Pers.) Fr. growing on termite hills. (Photo.: R. A. Dyer.)

Plate 8.—Podaxis pistillaris (Linn. ex Pers.) Fr. Burchell's drawing of "*Lycoperdon formicarum—Lycoperdon carcinomale*". (Photograph by courtesy of the Gubbins trustees.)

Plate 9.—Broomeia congregata Berk. (after Murray, 1884, Pl. 29).

exhibited at the time by Mr. Thistleton Dyer, who called attention to the interest of the specimens." (Murray 1884 : 311).

There was evidently some discussion about the structure of the outer peridium, which was later accurately described and figured from Een's specimens by Murray, (l.c.) (Plate 9) for in 1883, MacOwan (1883 : 373) gave his own observations on this fungus, which bear out the details later published by Murray. He says that " if the Rev. C. Kalchbrenner and myself had been able to carry out our original idea of publishing an extended paper on the South African fungi collected by myself, there would have been no question as to the outer peridium. My venerable friend has, no doubt, the MS. notes upon this rarity, which I have sent to Kew, to Vienna and to sundry private mycologues."

Broomeia congregata has been found a number of times in recent years, always on the ground, in close proximity to the trunk of living trees of *Acacia Karroo* (Pole Evans and Bottomley 1919 : 189). It is, however, not very common and is sporadic in its appearance.

A second species of Broomeia was found by Emil Holub, a Bohemian explorer and naturalist, who made three exploring trips in Southern Africa between 1872 and 1879, reaching the Zambesi and the Victoria Falls. This species was described by von Höhnel as *Broomeia ellipsospora* and said to occur " in sabulosis africa australi ". *Br. ellipsospora* was also found in Moçambique territory by the Rev. H. Junod, the Swiss missionary and collector, and has been collected several times in South West Africa, the Transvaal and the Orange Free State.

Owing to their ephemeral character, records of the occurrence of the Phalloids are comparatively few, but are of exceptional interest.

One of the most beautiful and remarkable of the phalloid genera, Kalchbrennera, is represented by a single species, and is known to occur only in southern and tropical Africa. The genus was named after the well-known Hungarian mycologist, Kalchbrenner, who sent specimens to Berkeley (1876 b and c) for description ; the species, *K. Tuckii*, was named after the collector of the original specimen, William Tuck, formerly Curator of the Botanic Garden, Grahamstown.

The white volva of this fungus, measuring about 1½ inches in diameter, is half buried in the soil. From the volva emerges a hollow stalk, about 4 inches long, which is cylindrical or becomes gradually broader upwards ; it is pale waxy yellow, tinged with red above, and is spongy in texture. At its top, the stalk merges into a hemispherical receptacle, formed like a narrow meshed trellis, and from this arise a number of ' processes '. The processes are 12–16 in number, one half to three quarters of an inch long, bright cinnabar red to scarlet in colour ; they are simple and nail or clubshaped, or once or twice bifurcate, and have a traversely wrinkled surface. On the hemispherical receptacle, between the bases of the processes, is spread the even stratum of spores, of which the olive black colour throws the scarlet processes into bold relief. (Plate 1. Frontispiece.) Like most of the phalloids, Kalchbrennera has a strong and extremely disagreeable smell.

" Springing up after rainy, thundery weather and decaying in the course of twenty-four hour, this very interesting plant has occurred three or four times in rough places of the mountain Boschberg in East Somerset, Cape Colony, amongst Acacia thickets, where it was found by Julius Tuck, formerly prefect of the Botanic Garden and sent by Mr. MacOwan, Professor in Gill's College, Somerset East, a diligent collector of the Fungi in his neighbourhood ", (Berkeley 1876 b : 248). It was also collected by Medley Wood in Natal and by Trollip near Bedford, at the foot of the Kagaberg. More recently, Kalchbrennera has been found in a number of localities, especially in the Cape and Natal ; one collection was made at Knapdaar by Gideon Joubert.

The same fungus was collected by Welwitsch in tropical Angola, where it was found amongst plantings of *Zea Mays* in damp sandy loam, often three days after rain—usually after thunder storms. The specimen which was found at Pungo Andongo (*Welwitsch no.* 119) was described in 1868 as *Lysurus corallocephala* Welw. and Curr. ; this specific name therefore has priority and the fungus is now known as *Kalchbrennera corallocephala* (Welw. and Curr.) Kalchbr.

Another phalloid found in Natal by Medley Wood was studied by MacOwan. Accompanying a sketch on an herbarium sheet in Kew Herbarium, there is the following note, apparently in MacOwan's handwriting : " We have a curious Phalloidea under description, very close to Kalchbrennera but quite generically distinct. This is the aspect. The crown of processes is of a magnificent yellow-scarlet, like Clathrus. The sporiferous centre dull bistre and slimy of course, the stipes waxy yellow, loosely cellular. I have not yet heard from Kalchbrenner about it. The scent is ten times worse than *Phallus impudicus*." This is the fungus originally collected at Inanda by Medley Wood and described as *Anthurus Woodii* MacOwan (Kalchbrenner 1880 a : 23) ; later it was transferred to the genus Lysurus by Lloyd. It grows on old cow dung, and appears to be fairly common in the Cape and Natal ; it has also been seen in the Transvaal.

The earlier botanical travellers were collectors in search of flowering plants. Some of the larger fungi which attracted their attention were collected, but until MacOwan and Medley Wood began systematically to collect fungi in the eastern Cape and in Natal, the smaller fungi received little attention.

One of the earliest collections of a parasitic fungus was made by Thunberg, who found on the leaves and twigs of Podocarpus the ascomycete now known as *Corynelia uberata*. According to Thunberg (1800 : 176 and 1823 : 743) " Crescit in foliis et ramulis arborum in sylvis Houteniquas Grootvadersbosch et aliis ". The single collection, of which a portion is in the herbarium of Elias Fries, was apparently divided and studied by a number of European botanists. It was described under a number of names. The authentic name, *Corynelia uberata* was proposed by Acharius in Fries : Observationes Mycologicae (Fries 1818 : 343–344, Plate 8, Fig. 1, a–e). The varied and rather dubious synonymy is discussed fully by Fitzpatrick (1920 : 247-251). Acharius, in connection with his description, cites *Mucor clavatus* Linnaeus f. (1781 : 453) and *Sphaeria turbinata* Persoon (1801 : 95) as synonyms, but this cannot be confirmed as a search for authentic material of the two latter species was unsuccessful.

Fitzpatrick's illustrations, which are reproduced, give an excellent impression of the appearance of *Corynelia uberata* Fr. ex Ach. (Plate 10). The fungus is extremely common throughout southern Africa on leaves, twigs and fruit of the Yellow-woods, Podocarpus spp. According to Fitzpatrick (l.c.) the same species has been found in Japan and in the Phillippines.

V.—FUNGI ON HOSTS OTHER THAN VASCULAR PLANTS.

The fungi parasitic on algae, hepatics and mosses have not yet been studied. Sparrow (1943 : 7) states, that from the scanty evidence now available, it seems probable that aquatic phycomycetes are world-wide in their distribution. When fresh-water algae collected in South Africa are examined, fungi belonging to the Chytridiales are frequently seen invading the algal cells and are apparently quite common. None of these has been studied nor has any record been found of species collected in southern Africa.

Only one fungus is known on the Hepaticae ; several collections of *Riccia* sp., made by Miss A. V. Duthie at Stellenbosch, were parasitised by a fungus described by S. J. du Plessis as *Olpidiopsis Ricciae*.

Fungi developing upon Other Fungi.

A number of fungi actively parasitic on other fungi, which are apparently cosmopolitan are common in South Africa. *Darluca filum* is very frequent on Uredineae, and in wet seasons attacks the uredo-sori so severely that the teleutospores do not develop ; the perfect stage of this fungus, *Eudarluca australis*, has been observed only occasionally. Tuberculina spp. have been found on rusts, Cicinnobolus is common on Erysiphaceae and Mycogone occurs on Agarics, especially Russula. No parasites of Phycomycetes have been recorded.

Leaf-inhabiting ascomycetes in the indigenous forests support a wide range of hyperparasites. These organisms have been studied by C. G. Hansford and to him grateful thanks are due for the identification of a large number of species. On the Meliolaceae are

Plate 10.—Coryneliа uberata Fr. ex Acharius (after Fitzpatrick 1920, Pl. 14). Fig. 13. Clusters of perithecia on leaves of *Podocarpus latifolia* (x 2½). Fig. 14. Clusters of immature perithecia the tips of several individuals crushed in the lower cluster (x 11). Fig. 15. A cluster of almost mature but unruptured perithecia (x 11). Fig. 16 A similar cluster of perithecia, but with many individuals broken away, exposing their white interiors (x 11). Fig. 17. A small group of perithecia, several of which show the characteristic method of dehiscence by a single, deep apical cleft (x 11). Fig. 18. A copy of one of the illustrations published by Ascharius in connection with the original description in Observationes Mycologicae of Fries.

found Sphaeriaceae of the genera Dimerium, Phaeophragmeriella, Dimerina and Chaetodimerina, Hypocreaceae including species of Calonectria, Paranectria, Philonectria and Nectria, Trichothyriaceae (*Trichothyrium* spp.) and Microthyriaceae (*Echidnodes lembosioides*). There are also a number of Fungi Imperfecti belonging to several genera of which the most common are Helminthosporium, Spegazzinia, Cephalosporium and Eriomycopsis. Hyperparasites on the Asterinaceae are less numerous ; one of the most interesting is *Mycolangloisia nitida* belonging to the Trichothyriaceae ; in addition there are several species of the genera Dimerium, Phaeodimeriella, Mycophaga, Calonectria and Eriomycopsis.

Amongst the Sphaeriaceae, a species of Cicinnobella has been found on *Englerula Macarangae*. The genera Cryptogene and Cryptogenella were described by Dr. H. Sydow on *Parodiella perisporioides* collected in Southern Rhodesia.

Lasmeniella globulifera is a hyperparasite on *Endodothella Deightoni*, *Phyllachora Halsei* and *Ph. Pterocarpi*, which are Phyllachoraceae on leguminous hosts ; the first two were found in the coastal scrub and the last in the parkland of the northern and eastern Transvaal and of Southern Rhodesia. Several parasites are found in the stromata of Phyllachoras on grasses ; *Cryptodidymosphaeria clandestina* is fairly common ; in addition, *Pleospora Doidgeae*, *Coniothyrium occultum* and *Stagonospora cryptogea* occur, chiefly in the perithecial cavities of *Phyllachora Doidgeae* which is a common parasite of the Andropogoneae. *Fusarium expansum* has been found parasitising *Phaeochorella Parinarii* on *Parinarium mobola* in the parkland of the northern Transvaal. The tale of hyperparasites on Phyllachoraceae is by no means complete ; several unidentified species have been observed, notably one which invades old perithecial cavities of *Phyllachora Strelitziae ;* the two-celled spores of this parasite were originally described as those of the stromatal ascomycete, which was therefore placed in the genus Endodothella.

On Hypoxylon, in the Xylariaceae, are found *Nectria episphaeria* and *Tympanopsis euomphala ;* the latter species is also known in England and in North Africa and is restricted to *Hypoxylon rubiginosum*, it is not known on any other host.

Amongst the Hypocreaceae, the stromata of *Epichloe cinerea* are often covered with a pink mat consisting of mycelium and spores of *Fusarium ciliatum ;* from this mat *F. decemcellulare* has also been isolated. *F. avenaceum* is frequently found on sclerotia of *Claviceps Paspali* and *F. heterosporum* var. *congoense* on those of other species of Claviceps and on ovaries infected with smuts such as *Ustilago bromivora*. *Fusarium culmorum* has been found on *Sphacelotheca Sorghi*, a smut of Kaffir corn ; *F. avenaceum* has been observed destroying the teleutospores of *Puccinia ranulipes* on *Asparagus laricinus*.

A Polyporus sp. has been seen supporting the fructifications of *Trametes Sycamori* and Hollós found *Phoma Geasteropsidis* on the Gastromycete *Geasteropsis Conrathi*. Cultivated mushrooms are sometimes attacked by an unidentified species of Verticillium. Amongst the Fungi Imperfecti, the ' bagworm fungus ', *Isaria Psychidae*, is often attacked by *Melanospora parasitica*.

Fungi on Lichens.

Pharcidia Psorae was recently found near Cape Town by S. Garside, on a species of Lecidea ; *Homostegia Piggotii* was identified by Zahlbruckner on *Parmelia rudecta* collected in South West Africa. Other fungi on lichens listed by Vouaux were found on specimens sent to Europe by collectors such as MacOwan, McLea, Wilms and Miss Armstrong in the 19th century. These include *Celidium stictarum* on Lobaria, *Abrothallus Parmeliarum* on Sticta, *Triblidiara capensis* on Lecidea, *Mycobilimbia quaternella* on Pertusaria, *M. acervata* and *Nesolechia perforans* on Parmelia. The form ' *pleurocarpa* ' of *Lobaria pulmonaria*, according to Garside, was based on specimens of this lichen in which the apothecia were rendered abortive by an attack of the parasitic fungus *Celidium stictarum ;* a specimen of this ' form ' was found by MacOwan on a tree trunk in the Boschberg.

Fungi attacking Insects and Spiders.

The entomogenous fungus which has attracted the most attention in South Africa is undoubtedly *Empusa Grylli*. In seasons when climatic conditions are suitable, this fungus causes heavy mortality amongst the locust swarms ; hundreds of infected insects climb high up on the vegetation and just before they die, fold their legs round the stem or leaf to which they are clinging. It is no uncommon sight, where mortality due to Empusa has been high, to see the tops of plants bearing locusts in all stages of disintegration (McMartin 1935 a). This fungus is an obligate parasite and attempts to grow it in artificial culture have failed. *Empusa Grylli* attacks the redwing and the brown locust and is also found on grasshoppers. Next in importance is a parasite of locusts is *Beauveria bassiana* causing the ' white fungus disease ' which occasionally occurs in epidemic form. *Metarrhizium anisopliae* is fairly common on the redwing locust. A number of species of Fusarium have been recorded on the redwing locust, but these are probably saprophytes.

House flies become infected with *Empusa Muscae* and when conditions are suitable, Aphids are decimated by *Entomophthora Aphidis*. The cutworm, *Euxoa segetis*, is attacked by *Entomophthora megasperma* and the larvae of the cabbage moth, *Plutella maculipennis* by *Entomophthora sphaerosperma*. *Entomophthora apiculata* is found on a wide range of insect hosts.

Fusarium coccophilum is common on scale insects in the more humid areas ; the perfect form of this fungus has not been observed in South Africa. *Fusarium coccophilum*, in wet seasons, is an important factor in the control of the red scale, *Aonidiella aurantii*, on citrus and on roses ; it is also found on a number of species of Aspidiotus and on the Mussel scale, *Lepidosaphes Gloveri*. The latter scale is often attacked by the ' white-headed fungus ', *Tetracium rectisporum*, especially in citrus orchards near the coast ; the perfect stage of Tetracium has not been found. *Myriangium Montagnei* is known on Lepidosaphes and also parasitises unidentified scale insects on indigenous plants. *Fusarium lateritium* found on the waxy scale, *Ceroplastes sp.*, and *Aspergillus* spp., observed on indigenous scale insects are possibly saprophytes. A number of species of Septobasidium, recorded on branches of cultivated and indigenous trees, are associated with scale insects infesting these hosts, but in no case has the insect been identified.

When conditions are suitable, *Isaria Psychidae* causes great mortality amongst bagworms, *Acanthopsyche Junodi*, in the wattle plantations, and according to Ripley, an unidentified Entomophthora caused extensive epidemics amongst these insects in 1923. *Beauveria Bassiana* has been found attacking larvae and chrysalides of *Cactoblastis cactorum*, an insect introduced from Australia to assist in the destruction of the prickly pear. Two specimens of Cordyceps have been collected, and those by MacOwan, on larvae of Elateridae.

Local collectors have paid no attention to the Laboulbeniaceae and the few species described were probably found by Thaxter on museum specimens of the insect hosts.

The only fungus parasite of spiders which is known is *Gibellula aranearum*, found in Natal on a spider of the family Lycosidae.

Fungi causing Diseases of Animals.

Saprolegnia has been observed on goldfish in the ornamental water at the Union Buildings, Pretoria and on a frog, but apart from this, nothing is known in South Africa of the parasitic Saprolegniaceae.

Aspergillus fumigatus is the cause of a fatal disease in young ostriches, the fungus being found in bone cavities, lungs and intestinal tracts. This fungus also invades the air sac of ducks and penguins with fatal results, and has caused a disease of various birds in aviaries.

A condition in merino sheep known as ' lumpy wool ' is caused by *Actinomyces dermatonomus*. Isolated outbreaks of this disease have occurred in the Karoo districts, where in some seasons it assumes serious proportions. Outbreaks have also occurred in East Griqualand and in the eastern, southern and south-western districts of the Cape.

One case of sporotrichosis, caused by *Sporotrichum Schencki*, has been diagnosed in a horse and three cases are on record of animals infected with *Rhinosporidium Seeberi*. The

latter fungus has been isolated from a tumour on the septum nasi of a horse and from tumours situated in the regio respiratorio, on the leg and in the nasal cavity of two mules.

Actinomycosis or lumpy jaw, caused by *Actinomyces bovis*, is fairly common in cattle. Ringworm has been diagnosed on horses, cattle, dogs and cats, but no attempt has been made to identify the casual organisms.

Thanks are due to Dr. E. M. Robinson of the Division of Veterinary Services for information about fungi concerned in diseases of animals and for references to literature on the subject.

Fungi causing Disease in Man.

It seems possible that diseases caused by fungi are more common than records indicate, especially in native itrrteories and in subtropical areas. In the colony of Moçambique, according to Dr. Ribeiro, mycoses cause, next to leprosy, the greater number of mutilations in the native population. A large number of natives can be seen rendered absolutely incapable of work owing to lesions caused by fungi. Between 1932 and 1934, 776 cases of unidentified mycoses were observed in Angoche and recorded in the hospital or in the mobile clinic (Ferreira 1941 : 33–34).

The first record of bronchomycosis from South Africa appears to be in 1902, when *Actinomyces Leishmani* was isolated from nodules in the lung and from the pericardial fluid of a soldier who had returned to England from Ladysmith (Birt and Leishman 1902). Further cases were investigated by Dr. A. Pijper, who described *Monilia bethaliensis*, isolated from sputum of a patient suffering from cough, periods of feverishness and bronchitis. The species was transferred by Dodge, to the genus Candida. Dr. Pijper also isolated from sputum, in cases of bronchomycosis, several other species classified by Dodge in the genera Candida and Castellania. *Actinomyces Pijperi* was found in mycopurulent sputum of a patient with chronic bronchitis. *Histoplasma capsulatum* has been isolated from lesions in the mouth of a European and *Rhinosporidium Seeberi* found in several cases of infection of the conjunctiva.

The first isolation of a Cryptococcus from spinal fluid in South Africa was made by Dr. Pijper from a fatal case of blastomycotic meningitis ; later a number of other cases attributed to *Cryptococcus histolyticus* were described and the organism isolated.

Aspergillus niger has been found in connection with an affection of the ear (otitis externa), *Geotrichum rugosum* in a case of thrush.

From ' mycetoma pedis ', forms of ' madura foot ', *Actinomyces africanus*, *A. madurae* and *A. transvaalensis* have been isolated, and *A. pretorianus* from mycetoma of the shoulder. *Hanseniospora Guillermondii* was found and described by Pijper causing onychomycosis in the case of a European woman.

Sporotrichosis, characterised by ulcers of the skin and inflamation of the joints and caused by *Sporotrichum Schencki*, var. *Beurmanni*, has claimed many victims among natives working underground in the gold mines of the Witwatersrand ; in one mine 650 cases were recorded amongst natives and some Europeans were also affected ; several cases amongst natives have also been reported from Moçambique.

Dr. Pijper's isolation of *Sporotrichum Carougeaui*, from a superficial lesion of the skin, is of interest ; this fungus was found by Langeron in Madagascar in 1913, but his strain was lost ; the South African fungus is on record at the Lister Institute.

The most common mycoses are those causing cutaneous affections. The most frequent cause of ringworm of the scalp, especially in children, is *Microsporon ardouini ; Ectotrichophyton mentagrophytes* and *Epidermophyton rubrum* have been found causing ringworm of the body, favus is caused by *Achorion Schoenleinii* and *Endodermophyton africanum* was isolated from scales of the body in a form of ' tinea imbricata '. *Malasezzia furfur* causes a skin disease of the body known as ' pityriasis versicolor '. *Epidermophoton interdigitale* causes athlete's foot and was one of the most common of the minor ailments in the army (Shapiro 1941).

In recording fungi parasitic on man and the higher animals, the nomenclature used by Dodge (1936) has been followed.

The author is glad to acknowledge the great assistance given by Dr. Adrianus Pijper in supplying information on fungal infections of humans and compiling a list of papers on the subject. Thanks are also due to Dr. Harington of the Port Elizabeth branch of the Medical Research Institute for directing the author to further literature, to Miss Strang, Librarian of the Medical Research Institute, Johannesburg, for assistance in tracing references and for the loan of books and to Dr. H. I. Lurie of that institution for a number of unpublished records of skin diseases.

VI.—OBSERVATIONS ON THE GROUPS OF FUNGI AND ACKNOWLEDGMENT FOR ASSISTANCE IN DETERMINING SPECIES.

In naming fungi and for the classification of the fungi generally, frequent use has been made of Engler and Prantl's Die Natürlichen Pflanzenfamilien, Saccardo's Sylloge Fungorum, C. G. Lloyd's Mycological Notes and Monographs and Ainsworth and Bisby's Dictonary of Fungi, in which is reproduced as an appendix G. W. Martin's Key to the families of fungi.

The families of the Myxomycetes are listed in the order in which they appear in Lister's Mycetozoa (1925 ed.), the genera being placed in alphabetical order; the classification followed in the Phycomycetes is that used by Fitzpatrick in his book on the Lower Fungi (1930).

The arrangement of the Ascomycetes presented some difficulties. The Endomycetales, 'lower' or degenerate forms, include a number of parasites on humans, and in this group the classification in Dodge's Medical Mycology has been adopted. Species which, according to Dodge, are imperfect forms of Eremascaeae, or Saccharomycetaceae are placed, with the Trichophytonaceae (according to Dodge 'Gymnoascaceae Imperfectae') at the end of the Fungi Imperfecti. In the classification of the Myriangiales, Sphaeriales and Microthyriales the author is in agreement with the views expressed by Hansford in his paper on 'The Foliicolous Ascomycetes' (1946), and these groups have been arranged in accordance with his suggestions.

The nomenclature followed in listing the lichens is that of Zahlbruckner's Catalogus Lichenum Universalis; reference is made to the volume and page of this work on which each species is recorded, whether its occurrence in southern Africa is mentioned or not. This departure from the general rule to include only South African references is made because of the unsatisfactory state of the literature on South African lichens. In two cases Zahlbruckner's nomenclature has not been followed: Magnusson's papers on the genus Acarospora are considered authoritative for that genus, and Motyka's nomenclature in the genus Usnea has been followed as far as available, but his monograph is unfortunately incomplete.

The Myxomycetes (Mycetozoa) are fairly well represented, especially near the coast and in wooded areas; so far the species collected have been those found in temperate and subtropical regions in other parts of the world.

A few Myxomycetes were listed by Kalchbrenner (1882: 143) from specimens sent by MacOwan and Medley Wood, but the study of these organisms in South Africa is largely the work of Miss A. V. Duthie, who made extensive collections in the forests of Knysna and the woods around Stellenbosch. She published lists of South African species in 1917 and 1918. She also sent material to Miss Gulielma Lister, who in her Note to the third edition of Lister's Mycetozoa stated that the collections made by Miss A. V. Duthie in the Cape Province have extended our knowledge of the range of many species. It is probable that a number of species recorded in the third edition of this work from 'Cape Province' or 'South Africa' were collected by Miss Duthie in the areas mentioned above. Comparatively few species have been collected in the forest areas of the eastern Cape, Natal and the Transvaal. This is probably because most of these forests are difficult of access in the wet season and because such delicate organisms cannot be preserved satisfactorily without carrying special equipment.

Phycomycetes are not abundant, presumably because the climate is too dry and temperatures too high for many of the plant parasites. Next to nothing is known of the aquatic forms, but these have frequently been observed and should be an interesting subject for future investigation.

Species of Phytophthora and of the Peronosporaceae on cultivated plants are often troublesome in wet seasons and in the south-western Cape a few species have been found on indigenous plants and on weeds. A study of the Pythiaceae has been made by V. A. Wager, who has been consulted about identifications of species not included in his published work. He has found a number of species of Pythium and Phytophthora on underground parts of plants.

Some of the more common Zygomycetes have been recognised, and of these *Rhizopus nigricans* is perhaps the most widespread; it is extremely destructive to fruit, tubers and other stored parts of plants. No general study has been made of moulds belonging to the Mucorales; a few isolated records such as those of *Circinella Sydowii* and *Syncephalastrum racemosum* from the gold mines, *Cunninghamella* from locust eggs and *Haplosporangium bisporale* from a wilted bean plant are sufficient to indicate that a study of the Zygomycetes would probably reveal the presence in South Africa of moulds belonging to other of the less common genera.

A number of Entomophthorales attack injurious insects such as flies, aphids and locusts; of these *Empusa Grylli* has attracted the most attention as it is periodically a factor in the control of locust swarms.

Ascomycetes are present in great numbers in the subcontinent; they are particularly numerous, as might be expected, in forests and wooded areas, but many unusual species have been found in less humid situations. There are indications that a study of the fungus and lichen flora of the arborescent Euphorbias might prove particularly interesting. Some work has been done in Pretoria on leaf inhabiting ascomycetes, especially those belonging to the Meliolaceae and the Microthyriales; the Phyllachoraceae and Valsaceae have also been studied. Mr. C. G. Hansford has been responsible for the identification of some of the leaf parasites, and to him the author is indebted for naming all the hyperparasites and for much advice and help. The Xylariaceae were submitted to Professor Julian Miller, who published the result of his study of the South African collections (1942) and has since kindly identified further specimens which were sent to him. Apart from the Valsaceae and Xylariaceae, ascomycetes growing on wood and decaying vegetable matter have been largely neglected, and so also have the coprophilous species.

Of the Hypocreaceae, *Epichloe cinerea* appears to be the most common species, occurring on a wide range of grasses. The sclerotia of a number of ergots have been collected on various hosts; a number of these have been germinated by Miss E. J. Scott, but her work is not yet complete and these can only be listed as *Claviceps* spp. Where the ascus stage has not been obtained, the records are included in the Fungi Imperfecti as *Sphacelia* spp. A number of samples of ergot from native grasses were analysed by a pharmaceutical firm and said to be deficient in alkaloid and of no value for pharmaceutical purposes. The most common species, *Claviceps Paspali*, has been proved to cause poisoning in cattle, the symptoms being inco-ordination of movement in varying degree up to complete paralysis (Mitchell 1918 b).

Many species of the Sphaeriales on cultivated plants are known only through their parasitic conidial stage or stages and are listed in the Fungi Imperfecti with a reference to the ascus stage, where it is known. When the perfect stage has been found, e.g. in the case of *Valsa leucostoma*, only these rare occurrences are recorded in the ascomycete list, with a cross reference to the more common conidial forms. An exception has been made in the case of common mildews of cultivated plants, which, in order to avoid adding to the long list of *Oidium* spp., are listed with the Erysiphaceae even if the perithecia have not been found.

Discomycetes are fairly abundant, but few have yet been collected and still fewer identified. *Morchella conica* occurs in oak woods and among shrubs in various localities in the Cape Peninsula. Marloth, in 1913, stated that 25 years earlier he found only a few specimens among oaks at the Round House near Cape Town, but gradually the plant has spread and occurs now in various localities in the Cape Peninsula and probably elsewhere. The Tuberales are represented only by *Pseudobalsamea* growing in mushroom beds and by species of Terfezia found in arid regions.

The few Laboulbeniaceae on record are apparently known only from Thaxter's studies of specimens found on insects in museum collections ; no one in South African has scrutinized insects for these peculiar forms.

The lichen flora is remarkably rich and varied, near the coast and in the interior, in forest and in desert, but the records of the lichens of southern Africa are unfortunately in a confused state and some identifications probably not accurate. For this reason, it has been argued by Mr. Garside that publication of a list of species at this stage will tend to perpetuate errors which have been made. If, however, it is borne in mind that the list is intended only as a guide to the very scattered literature on South African lichens and to specimens in South African herbaria, such a record should be of value to future workers and perpetuation of errors avoided.

The first list of African lichens, Stizenberger's ' Lichenaea Africana ' (1890–1895) gives few details about distribution and many of the earlier publications to which he refers are not available in this country. Wainio's Monograph on the genus Cladonia has not been accessible and many details might be filled in were it possible to consult J. Müller's (Arg.) ' Lichenologische Beiträge ' published in Flora (1880–1888).

Although MacOwan and doubtless other collectors numbered their specimens no numbers are quoted by Stizenberger nor by Motyka in his recent monograph on the genus Usnea. This omission makes it impossible to link references to collections quoted by the two authors ; a number of species of Usnea listed by Stizenberger are said by Motyka not to occur in South Africa. In such cases the discrepancy is indicated in a foot note.

It is most unfortunate that no sets of lichens collected by MacOwan, Wilms and earlier collectors are to be found in South Africa, the few MacOwan specimens detected being imperfectly labelled. As indicated elsewhere type specimens are to be found in several European herbaria. In more recent years, van der Byl made extensive collections of lichens, which are to be found in the Department of Botany of the University of Stellenbosch. He sent specimens for identification to Miss Annie Lorrain Smith, to G. K. Merrill, E. A. Wainio and A. Zahlbruckner ; where his records show which of these lichenologists was responsible for the identification of series of numbers, this information is included in the record, unless it has been published. A number of new species were described by Wainio and Zahlbruckner, and in Zahlbruckner's papers on African lichens, the numbers of van der Byl lichens identified, as well as those of the type specimens of new species are quoted.

South African students of lichenology are lamentably few. Mr. S. Garside has long been interested in this subject and many of his collections are quoted in Motyka's monograph of the genus Usnea. Thanks are due to him for the identification of specimens in the Pretoria collections of the Roccellaceae, Stictaceae and Teloschistaceae, families which are his present subject of study.

Basidiomycetes are abundant. The Ustilaginales are represented by most of the important smuts in cereals and a considerable number on wild hosts, notably on grasses of the section Andropogoneae. Fungi of this group were sent for identification to Zundel, who has cited South African specimens in a number of papers and has published a general account of the smuts of southern Africa.

The Uredinales are represented by numerous rusts on cultivated plants and an even greater number on indigenous hosts ; it is thought that the tale of South African rust fungi is by no means complete, and nothing is yet known of the life histories of most of the heteroecious species. The familiar generic names Puccinia and Uromyces have been retained, and in general the nomenclature of Sydow's Monograph (1904–1924) has been followed. More recent classifications, based on spore forms in the life cycle of the rust fungi, are impossible of application to South African species until life histories have been studied. The earliest paper on South African rust fungi is by Pole Evans (1916 a) ; later studies by the author were published in Bothalia.

For identification of numerous Hymenomycetes and for revision of the nomenclature of the whole group, the author is greatly indebted to Miss E. M. Wakefield of Kew Herbarium. Thanks are also due to Miss A. M. Bottomley for her very considerable help in compiling

data about the Hymenomycetes. In earlier years many specimens were examined by C. G. Lloyd, and papers on the South African species of Thelephoraceae and Polyporaceae were published by van der Byl ; a few species of Thelephoraceae were sent to Burt, who included them in his monograph of the family. The Thelephoraceae are fairly well represented, especially in forest and plantations ; of the Clavariaceae 33 species are recorded and 30 species of the Hydnaceae.

Polyporaceae are numerous and have been collected extensively by van der Byl and Keet and in more recent years by Rump. A large number of species has been identified, but the mass of unidentified material not yet studied probably includes species not recorded from South Africa or undescribed. A few of these fungi are actively parasitic and are known to cause injury to trees ; in the forests *Ganoderma applanatum* injures ironwood trees (*Olea laurifolia*) and *Fomes rimosus* causes heartwood of sneezewood (*Ptaeroxylon utile*) ; *Ganoderma lucidum* attacks willows and native Acacias. A number of species cause decay in commercial timber, especially that used underground in the form of mine props.

The Boletoideae are more numerous than indicated in the list, where six out of the eleven species of Boletus recorded are represented by only one or two collections, probably because the fungi often collapse and decay before they can be satisfactorily studied. Marloth (1913 : 23) states that *Boletus edulis* is to be found in almost all the oak woods around Table Mountain, as well as at the Paarl, Stellenbosch and Wellington, appearing in April and May according to the autumnal rains. This fungus attains much larger dimensions than in Europe, weighing not rarely 2 lb. and occasionally 3 lb., the cap being 8 or 10 or even 12 in. in diameter. *Boletus bovinus* occurs more frequently in pine woods.

There has been no critical study of the Agaricaceae, the only publication on this group being a paper by van der Byl on the genus Lentinus. In the more humid regions great numbers of these fungi appear annually, but in more arid districts their appearance is sporadic and dependent on a very variable rainfall. Most of the Agarics become infested with insects and soon break down, especially in hot weather, and they are difficult to identify from dried specimens, even with accompanying notes about size and colour. A study of this group will only be effective when it can be carried out over a period of years by someone familiar with species occurring in other parts of the world.

Many of the cosmopolitan species are common, including edible species of Psaliota, Lepiota and Coprinus. One of the mushrooms most relished by the natives is the ' ikowe ', *Schulzeria Umkowaan*, a large species with white gills ; this mushroom has a long, tough, subterranean stipe, which can always be traced to its origin in a termite comb. *Collybia albuminosa* grows on exposed termite nests, and *Entoloma microcarpum* develops in great numbers on the ' fungus garden ' prepared by the termites, which bring to the surface a spreading layer of finely triturated termite comb.

The parasitic *Armillaria mellea* has caused serious damage, chiefly in the plantations of the northern Transvaal, where it spread to trees in plantations from stumps of indigenous trees not removed when the native bush was cleared.

Several poisonous species occur fairly commonly, but comparatively few cases of mushroom poisoning have been reported ; this is probably because mushrooms are avoided as an article of diet by many people, who are not confident that they can recognise the edible varieties. *Amanita muscaria* is often abundant under oaks or pine trees ; the vivid colouring of this species acts as a danger signal and it is not known to have caused poisoning. In a number of cases which have been reported the information is incomplete and it has been impossible to discover what fungi are responsible.

Cases of poisoning have occurred which were directly due to *Amanita phalloides ;* the first record of poisoning by this fungus reported to Pretoria was in 1923, when it was the cause of three deaths in the Harrismith district. Marloth (1912 : 21) states that numerous cases of poisoning have been caused by this plant ; he mentions that a cook at Elsenburg College, an Indian who had come from Natal, was thrown into terrible agony for 36 hours merely by having eaten some rice boiled in a pot which his mate had just used for stewing some of the Amanita ; the mate died the same day. Marloth adds that the squirrels on

the Cape woods, which are fond of *Boletus edulis*, do not touch the *Amanita phalloides* although both kinds of fungus grow often intermingled.

Amanita pantherina is an equally dangerous species and is known to have been responsible for several cases of poisoning. A fatal case was reported from Cape Town in 1927 (Silbauer and Mirvish 1927). On May 15 of that year an impoverished family of three adults and four children gathered mushrooms on the slopes of Table Mountain and 4.30 p.m. all partook of a meal of these fungi, which, in later investigations by Dr. Marloth, proved to be in part *Amanita pantherina*. At 6.15 p.m. a doctor was summoned and he found the two youngest children in a state of coma ; while he was examining them the mother complained of feeling dizzy and became drowsy and semi-conscious. The whole family was taken to hospital. The mother died at 6 a.m. on May 17th, a girl aged 14 at 3.40 p.m. on the same day ; the three younger children, aged $2\frac{1}{2}$, $3\frac{1}{2}$ and 10 died on the morning of the 18th. The father and an elder son aged 18 lived until the following day, but not one of the family survived.

An unnamed species of Hebeloma, common in the neighbourhood of Pretoria, is considered by some a good edible variety ; others after eating a small portion of this mushroom are soon attacked by headache, dizziness and cramp.

The Gasteromycetes are well represented and a number of particularly interesting species have been found. Several papers on fungi of this group have been published by Verwoerd and N. J. G. Smith ; a comprehensive account of the Gasteromycetes of Southern Africa has recently been written by Miss A. M. Bottomley for publication in Bothalia.

Many Fungi Imperfecti parasitic on cultivated plants and a smaller number on indigenous hosts are known, but very few of these species have been traced to the ' perfect ' form. Mildews are extremely common on a wide range of hosts, and for the sake of completeness—with the exception of certain common species on cultivated plants (see notes on ascomycetes)—these are listed as *Oidium* spp. and grouped according to the family of the host.

Maize becomes seriously infected with *Diplodia Zeae*, which Mitchell (1918 a) proved to be a cause of inco-ordination of movement and paralysis in cattle. He was able to produce symptoms of poisoning after having fed 20 lb. of artificially infected maize to bovines. Theiler (1927) found that 2–3 lb. of maize infected with *Diplodia Zeae* caused poisoning within 2 days ; results of feeding experiments with pigs and horses were negative.

The Cerebella spp. found on a number of grasses are not parasitic on these plants but are saprophytes growing on the honey dew secretion associated with the Sphacelia stage of Claviceps spp. The fungi of this genus need study, not only as they occur on grasses, but in culture, before the species can be determined. With the exception of *Cerebella Cynodontis*, which was described by Sydow from a South African specimen, these fungi have not been assigned to a species.

For assistance with the identification of a number of Fungi Imperfecti, thanks are due to Miss E. M. Wakefield and to the Director and staff of the Imperial Mycological Institute. Mr. C. G. Hansford has kindly identified the hyperparasites. The species of Helminthosporium on cereals and grasses were identified by Miss K. M. Putterill, formerly on the staff of the Cryptogamic Herbarium, Pretoria.

STATISTICAL SUMMARY.

Summary of the number of Genera, species and varieties recorded in each family and group.

Group and Family.	Genera.	Species.	Varieties.	Forms.
Myxomycetes—				
Ceratiomyxaceae	1	1	2	—
Physaraceae	10	45	4	—
Didymiaceae	2	5	2	—
Stemonitaceae	4	13	2	—
Amaurochaetaceae	1	1	—	—
Heterodermaceae	2	4	—	—
Tubulinaceae	1	1	—	—
Reticulariaceae	2	2	—	—
Lycogalaceae	1	3	—	—
Trichiaceae	2	9	—	—
Arcyriaceae	2	9	—	—
TOTAL NUMBER OF MYXOMYCETES	28	93	10	—
Phycomycetes—				
Chytridiales—				
Plasmodiophoraceae	3	3	—	—
Woroninaceae	1	1	—	—
Synchytriaceae	1	3	—	—
Cladochytriaceae	1	1	—	—
Blastocladiales—				
Blastocladiaceae	1	1	—	—
Saprolegniales—				
Saprolegniaceae	1	1	—	—
Peronosporales—				
Albuginaceae	1	10	—	—
Pythiaceae	2	17	1	—
Peronosporaceae	4	16	—	—
Mucorales—				
Mucoraceae	3	10	—	—
Pilobolaceae	1	1	—	—
Choanophoraceae	1	1	—	—
Piptocephalaceae	1	1	—	—
Entomophthorales—				
Entomophthoraceae	2	10	—	—
TOTAL NUMBER OF PHYCOMYCETES	24	77	1	—

Group and Family.	Genera.	Species.	Varieties.	Forms.
Ascomycetes—				
Laboulbeniales—				
Laboulbeniaceae	3	5	—	—
Peyritschiellaceae	3	3	—	—
Endomycetales—				
Ashbyaceae	2	2	—	—
Endomycetaceae	1	1	—	—
Coccidioideaceae	2	2	—	—
Saccharomycetaceae	2	4	—	—
Taphrinales—				
Protomycetaceae	1	1	—	—
Taphrinaceae	1	4	—	—

Group and Family.	Genera.	Species.	Varieties.	Forms.
Myriangales—				
Myriangiaceae	2	2	—	—
Dothideaceae	15	19	—	—
Parodiellinaceae	4	4	—	—
Erysiphaceae	6	29	1	—
Meliolaceae	8	102	3	—
Eurotiaceae	3	3	—	—
Sphaeriales—				
Chaetomiaceae	1	5	—	—
Sordariaceae	4	12	—	—
Sphaeriaceae	22	44	2	—
Ceratostomataceae	1	3	—	—
Hypocreaceae	21	69	—	—
Lophiostomataceae	1	1	—	—
Mycosphaerellaceae	21	79	—	—
Gnomoniaceae	4	6	—	—
Valsaceae	13	35	—	—
Phyllachoraceae	9	81	2	—
Capnodiaceae	4	6	—	—
Chaetothyriaceae	2	3	—	—
Coryneliaceae	3	3	—	—
Melogrammataceae	2	3	1	—
Microthyriales—				
Stigmateaceae	6	9	—	—
Microthyriaceae	21	51	1	—
Asterinaceae	7	65	4	—
Trichothyriaceae	2	3	—	—
Trichopeltaceae	1	2	—	—
Hemisphaeriaceae	7	13	—	—
Hysteriales—				
Hysteriaceae	4	6	1	—
Phacidiales—				
Phacidiaceae	2	3	—	—
Pezizales—				
Pezizaceae	17	34	—	—
Helvellaceae	2	3	—	—
Helotiales—				
Dermateaceae	8	13	—	—
Orbiliaceae	3	4	—	—
Hyaloscyphaceae	1	1	—	—
Helotiaceae	10	18	—	—
Patellariaceae	9	11	—	—
Tuberales—				
Tuberaceae	2	4	—	—
TOTAL NUMBER OF ASCOMYCETES	274	835	15	—
Lichenes—				
Pyrenocarpeae—				
Verrucariaceae	2	6	1	—
Dermatocarpaceae	3	7	—	—
Pyrenulaceae	8	48	3	1
Trypetheliaceae	3	5	—	—
Paratheliaceae	1	1	—	—
Astrotheliaceae	1	1	—	—
Strigulaceae	1	6	1	—
Pyrenidiaceae	1	1	—	—
Mycoporaceae	2	2	—	—
Gymnocarpeae—				
Caliciaceae	1	4	—	—
Cypheliaceae	1	2	—	—
Sphaerophoraceae	1	1	—	—
Arthoniaceae	2	32	1	—

Group and Family.	Genera.	Species.	Varieties.	Forms.
Cryptotheciaceae	1	1	—	—
Graphidiaceae	8	48	3	—
Chiodectonaceae	4	10	2	1
Dirinaceae	1	1	—	—
Roccellaceae	2	10	6	1
Lecanactidaceae	3	7	—	—
Pilocarpaceae	1	1	—	—
Chrysothricaceae	1	1	—	—
Thelotremaceae	4	13	2	—
Diploschistaceae	3	12	3	1
Gyalectaceae	3	3	—	—
Coenogoniaceae	1	2	—	—
Ephebaceae	1	1	—	—
Pyrenopsidaceae	4	6	—	—
Collemaceae	4	26	7	1
Heppiaceae	1	3	1	—
Pannariaceae	5	12	5	—
Stictaceae	2	28	11	4
Peltigeraceae	3	11	—	4
Lecideaceae	7	167	14	14
Phyllopsoraceae	1	4	2	—
Cladoniaceae	4	25	19	11
Gyrophoraceae	2	5	2	1
Acarosporaceae	3	45	3	—
Pertusariaceae	1	48	4	—
Lecanoraceae	9	82	13	9
Parmeliaceae	2	131	39	12
Usneaceae	6	98	14	6
Caloplacaceae	3	86	12	6
Teloschistaceae	2	18	12	7
Buelliaceae	2	91	13	6
Physciaceae	3	42	12	7
Lichenes Imperfecti	1	5	—	—
TOTAL NUMBER OF LICHENS	126	1,159	205	92
Basidiomycetes—				
Hemibasidii—				
Ustilaginales—				
Ustilaginaceae	8	103	—	—
Tilletiaceae	4	21	—	—
Graphiolaceae	1	1	—	—
Uredinales—				
Melampsoraceae	6	17	1	—
Pucciniaceae	16	312	1	—
Uredineae Imperfectae	3	145	1	—
Eubasidii—				
Hymenomyceteae—				
Tremellales—				
Auriculariaceae	4	30	2	—
Tremellaceae	4	18	—	—
Dacryomycetaceae	6	13	—	—
Hymenomycetales—				
Exobasidiaceae	2	6	—	—
Hypochnaceae	1	2	—	—
Thelephoraceae	14	118	3	—
Clavariaceae	3	32	1	—
Hydnaceae	11	30	—	—
Polyporaceae	21	359	4	—
Agaricaceae	50	329	23	—

Group and Family.	Genera.	Species.	Varieties.	Forms.
Gasteromyceteae—				
Hymenogastrales—				
Hymenogastraceae	8	17	—	—
Secotiaceae	4	5	—	—
Phallales—				
Phallaceae	4	7	—	—
Clathraceae	7	10	—	—
Sclerodermales—				
Sclerodermataceae	2	16	—	—
Arachniaceae	1	5	—	—
Lycoperdales—				
Lycoperdaceae	10	72	—	—
Tulostomataceae	5	24	—	—
Nidulariales—				
Nidulariaceae	2	11	—	—
Sphaerobolaceae	1	1	—	—
TOTAL NUMBER OF BASIDIOMYCETES	198	1,704	39	—
Fungi Imperfecti—				
Sphaeropsidales—				
Sphaerioidaceae	42	250	—	—
Nectrioidaceae	2	2	—	—
Leptostromataceae	8	11	—	—
Excipulaceae	3	4	—	—
Melanconiales—				
Melanconiaceae	20	117	—	—
Moniliales—				
Actinomycetaceae	1	11	—	—
Mucedinaceae	34	133	1	—
Dematiaceae	43	229	3	—
Tuberculariaceae	19	62	22	11
Stilbaceae	8	15	1	—
Eremascaceae Imperfectae	5	11	—	—
Saccharomycetaceae Imperfectae	3	6	—	—
Trichophytonaceae	8	11	—	—
Mycelia Sterilia	3	7	—	—
TOTAL NUMBER OF FUNGI IMPERFECTI	199	880	27	11
TOTALS—				
MYXOMYCETES	28	93	10	—
PHYCOMYCETES	24	77	1	—
ASCOMYCETES	274	835	15	—
LICHENS	126	1,159	205	—
BASIDIOMYCETES	198	1,704	39	—
FUNGI IMPERFECTI	199	880	27	—
GRAND TOTAL	849	4,748	297	—

VII.—TYPES AND TYPE COLLECTIONS.

It has been indicated elsewhere that the first fungi found in South Africa were taken to Europe as part of the spoils of the earlier botanical collectors, or, later, were sent to European mycologists for identification. As a result of this practice, few of the earlier type specimens are to be found in South Africa, and when Dr. Pole Evans began his study of South African fungi, the lack of types and of authentically named specimens was a serious handicap. It was found necessary, therefore, to send further collections away for study

retaining duplicates in the country, until sufficient named material had accumulated to form a basis for future work.

Type specimens of fungi collected in the 18th and 19th centuries are scattered in many herbaria, and are not always easy to trace. Dr. Wiltshire (1944 : 5) states that " since the last International Botanical Congress, the Committee on Nomenclature of the Botanical Society of America undertook to gather data on the location of type specimens. A preliminary list in mimeographed form of the herbaria of notable mycologists and the places where they are preserved, was circulated some years ago, but is far from complete." This list is not available in South Africa, and information about the location of type specimens of South African fungi and lichens is meagre and very far from complete. In the succeeding pages an effort has been made to indicate where at least the more important of these collections are to be found. It is hoped that at some future date a South African mycologist will find it possible to catalogue South African types in European and American herbaria ; such a compilation would be of great service.

Most of Thunberg's specimens are in the Thunberg Herbarium in the botanical museum, Uppsala ; there are also a number in other herbaria from sendings to his friends while on his travels. Two of his collections, *Lycoperdon carcinomatis* [=*Podaxis pistillaris* (Linn. ex Pers.) Fr.] and *Lichen verrucosus* [=*Siphula tabularis* (Thumb.) Nyl.] are in the Linnean Herbarium, London (Jackson 1912 : 97, 99).

Collections made by Eaton, Harvey and Zeyher were sent to Berkeley for examination and are in the Berkeley Herbarium at Kew. In 1847, Taylor published descriptions of a number of lichens collected by Zeyher, which he found in the Hooker Herbarium. Part of Zeyher's collection of fungi was sent by G. Kunze to Elias Fries ; a few of these had not been studied by Berkeley, others were common to both collections. These fungi, and also those described by Fries from collections made by J. A. Wahlberg in Natal and parts of the Cape, are in the Museum of the Acad. Sc., Stockholm. Most of Drège's specimens are preserved in the Herb. Delessert at Geneva (Pole Evans 1917 : 101).

MacOwan's early collections were sent to von Thuemen, who distributed many numbers in his Mycotheca universalis. A number were identified by Winter and were distributed with the Rabenhorst-Winter Fungi Europaei et Extra-europaei. MacOwan prepared several sets of his Fungi austro-africani, of which one was sent to Cooke at Kew, where it was filed in the herbarium, and a second went to Kalchbrenner. A third set of MacOwan's plants, apparently including fungi, was sent to Theodor M. Fries, for in a letter dated 25th October, 1887, Fries writes from Uppsala : " The fine specimens of *Hydnora* and *Broomeia* are now true ornaments to our museum and the centuries that we have last received of your splendid *Herbarium austro-africanum* must, as well as those we have received before, be considered as the most precious additions that our herbarium have received of late. " A third set was left in Somerset East, when MacOwan went to Cape Town, and was later transferred to Grahamstown ; this set was acquired by purchase for the Pretoria Herbarium from Dr. S. Schonland when he retired from the curatorship of the Albany Museum. It is unfortunately not complete, nor is the set in the herbarium of the South African Museum, Cape Town.

MacOwan's lichens are more difficult to trace, and unfortunately very few numbers are to be found in South African herbaria. Some earlier collections, mostly from the Boschberg, were sent to Glasgow, where they were studied by Stirton and described in a paper which also dealt with lichens sent by Shaw and McLea. Some lichen numbers were included with the specimens sent to Kalchbrenner, who forwarded them to Lojka at Buda-Pesth ; Lojka was interested in the South African material and asked MacOwan to send specimens for the ' Lichenotheca universalis ' which he was preparing for distribution ; he also asked to see the specimens sent to Stirton as he considered that some of Stirton's species were ' ambiguous '. After Lojka's death, MacOwan's lichens were sent to Stizenberger at Constanz in Germany ; Stirton's types, which had been mislaid after Lojka's death, were found amongst his effects and also submitted to Stizenberger. The latter eventually returned them to MacOwan ; a few specimens at Pretoria have Stirton's original determination and comments in a different

hand, apparently that of Stizenberger ; unfortunately these specimens have no distinguishing numbers. In the report of the Government Botanist, 1897, MacOwan writes : " From the roll of correspondents with this herbarium, there has been recently removed by death, the eminent lichenologist Dr. Ernest Stizenberger of Konstanz. After the death of Dr. Hugo Lojka of Buda-Pesth, who had interested himself in Cape lichens, Dr. Stizenberger took up the broken thread of investigation, and at his suggestion, special attention was given to the collection of the saxicole forms, which previously had been greatly neglected. *Considerable numbers of each species were placed at his disposal, and after the publication of his Lichenaea Africana, the surplus was distributed among lichenologists.*" Mr. S. Garside has ascertained that most of MacOwan's lichen types are to be found in the Herbarium der Botanische Museum der Universität, Zurich. It would appear that all, or most of Stizenberger's lichen collections went to Zurich, as there are numerous references to collections made by Wilms, Rehmann and Breutel in Zurich, as well as those of MacOwan.

Medley Wood's fungi also went to Cooke and Kalchbrenner and there is a set of his specimens at Kew. The lichens which he collected were probably sent to Lojka, as in a letter dated 8.3.87, the latter states that he has written to Medley Wood, asking him to collect corticolous and foliicolous lichens. A set of Medley Wood's fungi was kept in the Natal Herbarium, and was presented to the Government in 1913 ; this set is now in the Cryptogamic Herbarium, Pretoria, but unfortunately, during the years it was kept in Durban, insects wrought considerable havoc, especially in the larger specimens.

A large number of South African and many tropical African type collections, which are of almost equal importance in the study of South African species, were filed in the herbarium of the Botanisches Museum, Berlin-Dahlem, where it is hoped they may have survived the ordeal by fire in 1944. These include fungi described by P. Hennings, some of Schlechter's specimens, parts of lichen collections of Wilms, Breutel, Bachmann and many more, as well as Baum's fungus collections, made when he accompanied the Kunene-Sambesi Expedition.

Welwitsch's Angola collections were divided between Lisbon and the British Museum, and when there was only a single specimen, an illustration was filed in the British Museum. Also in the latter institution are collections of lichens contributed by MacLea, Breutel and others, some, at least, of which are parts of type collections.

Besides Thunberg's specimens, a more recent collection of South African lichens is to be found at Uppsala. I. Ortendahl of the Botanical Gardens there, made a collection in Namaqualand, which was sent to Magnusson for examination. This collection, in which yellow species of Acarospora predominate, is preserved in the Plant Biological Institution at Uppsala. The extensive collections of lichens and fungi taken back to Norway by O. A. Høeg as a result of his journey through Africa, are in the Museum of the Royal Norwegian Society of Science, Trondheim.

From 1905 onwards, Dr. Pole Evans sent numerous specimens to Europe for identification, some to P. Hennings and P. Magnus, but the majority to H. and P. Sydow, in whose herbarium many types were assembled. After the first world war, H. Sydow disposed of his herbarium, and it is now in the Nat. Hist. Museum, Stockholm. Later Sydow started a new Herbarium and types of species described more recently were kept in Berlin ; this second collection was unfortunately destroyed during the second world war. Portions of all collections sent away were retained in Pretoria, where are also to be found types of species described in ' Bothalia ' from 1921 onward. Many of the larger fungi were sent to C. G. Lloyd in America, and after P. A. van der Byl became Professor of Plant Pathology in the Stellenbosch-Elsenburg College of Agriculture, he continued this practice. A number of types are therefore in the Lloyd Mycological Collections and parts of the type collections either in the Pretoria Herbarium or in the van der Byl Herbarium at Stellenbosch. There are also a few types in the herbarium of the Stellenbosch-Elsenburg College of Agriculture.

About 1930, van der Byl became interested in lichens and made considerable collections which he sent abroad for identification. New species were described by Vainio, of which the types were deposited in the Herbarium of the Mus. Bot. Univ. Fennicae in Abo (Turku) Finland. Zahlbruckner was responsible for a larger number of descriptions and the types

filed in the botanical section of the Naturhist. Museum in Vienna, of which he was the Director. Other types in this herbarium are those of species described by Zahlbruckner from material collected in Africa by Brunnthaler and in South West Africa by ' Apotheker Fincke ' of Luderitzbucht. Parts of all van der Byl's lichen collections were retained in his herbarium now housed in the botanical department of the University of Stellenbosch.

According to Schinz (1905 : 2) Menyharth's collections of plants from the Zambesi region are partly in the botanical museum of the University of Vienna and partly in the Haynald-Observatorium in Kalocza, Hungary ; duplicates of most of the numbers were to be found in Vienna.

As Dr. Wiltshire has pointed out, the practice in general botany of taking the actual specimen studied as the type does not hold in mycology, where the author of a new species bases his description usually on a number of specimens or a collection. After elaborating this point, he continues (1944 : 5) : " I suggest therefore, that Article 18 of the International Rules, which states that ' The type of the name of a species or group of lower rank is usually a specimen or preparation ', should be extended to read ' except that the type of an epithet among micro-fungi is almost universally a collection '. It follows that all the material of a type collection has equal value wherever it may be deposited. . . . In South Africa it is taken for granted that the part of a MacOwan or Medley Wood collection retained in that country is as much type material as that sent to Kew and used by Cooke as the basis for a new species, and I really do not see how anyone can object to this. The parts of the fungus used by Cooke for his examination were not preserved. For purposes of comparison the right species has to be taken from the original material and identified whether that material be preserved at Pretoria or Kew."

In the lists of species in succeeding pages, the word ' type ' is used in the sense suggested by Dr. Wiltshire, i.e. as indicating the type collection or a part thereof.

VIII.—LIST OF SPECIES.

In the following list abbreviations are used for author's names and publications, and place names are indicated as briefly as possible. A note of interrogation before a record indicates that there is some doubt about the identification, but that the fungus is probably the species named.

South African Collections listed and Abbreviations used.

The largest collection of fungi of southern Africa is to be found in the Cryptogamic section of the National Herbarium, Pretoria. The numbers in this collections are quoted without any qualifying letters.

Other South African collections listed are the following, the abbreviations used in quoting their numbers being shown in brackets :—

(Duthie) Dr. A. V. Duthie's collections, mostly from Knysna and Stellenbosch. The Fungi are scattered in several herbaria ; Mr. S. Garside kindly permitted the author to list the Myxomycetes, which are under his care in the Bolus Herbarium, Cape Town.

(MacOwan) Fungi MacOwaniana, of which the majority were collected by Dr. Peter MacOwan in the neighbourhood of Somerset East, the Boschberg and Cape Town. Sets of specimens in the National Herbarium, Pretoria and the South African Museum, Cape Town are incomplete. There is also a set in the Kew Herbarium.

(Medley Wood) Dr. J. Medley Wood's Natal fungi, originally housed in the Natal Herbarium, Durban were later transferred to the National Herbarium, Pretoria.

(Pegler) Miss A. Pegler's fungi of Kentani. There is an almost complete set in the National Herbarium, Pretoria ; a set was also sent to Kew Herbarium.

(Rh) Mycological Herbarium of the Department of Agriculture, Southern Rhodesia. Thanks are due to Dr. J. C. F. Hopkins for lists of unpublished records from this herbarium.

(Rump) Mr. W. G. Rump's collections of the larger fungi of Natal, mostly from the country around Pietermaritzburg. These are housed in the Natal Museum, Pietermaritzburg and there is a fairly complete set in the National Herbarium, Pretoria.

(S.A.M.) Fungi and lichens in the herbarium of the South African Museum, Cape Town, were listed through the courtesy of the Director of the Museum.

(Stell.) The Mycological Herbarium of the Stellenbosch-Elsenburg College of Agriculture, originally Dr. L. Verwoerd's collections. I am greatly indebted to Dr. B. J. Dippenaar for a list of the fungi in this herbarium.

(E. L. Stephens) Collections, mostly of the larger fungi of the south-eastern Cape, assembled by Miss E. L. Stephens in the museum of the University of Cape Town. Miss Stephens very kindly assisted in listing these collections.

(T.R.L.) The Mycological Herbarium of the Timber Research Laboratory, Johannesburg. Thanks are due to Miss D. Weintroub of that institution for a list of the named fungi in the herbarium.

(v.d. Byl) The herbarium of Dr. P. A. van der Byl in the botanical department of the University of Stellenbosch. A record of the fungi in this collection has been published by Dr. G. C. Nel (1942) and the trustees of the van der Byl herbarium granted access to his collections so that the lichens could be listed. In the van der Byl herbarium, as in the National Herbarium, Pretoria there are two series of numbers, one for fungi and the other for lichens.

It is not considered necessary to explain abbreviations used in referring to European herbaria and well-known exsiccata, which are readily recognisable.

Amongst the species listed there are a number which, in literature quoted, are recorded as occurring in South Africa, but which are not represented in any South African herbarium.

Place of Collection.

In order to avoid repetition of names of districts and provinces, the place of collection is indicated as briefly as possible. The district and province in which each place is located can be found by reference to the locality index (p. 00). In this index there are a few omissions —mainly places quoted by early collectors—which it has not been possible to locate. Maps of provinces are supplied showing division into districts, and by comparison with the vegetation map, a general idea can be gained of the type of country in which the fungus or lichen was found.

Literature.

Citations are made as follows : Author, year of publication (in parenthesis) and page The full citation may be found by reference to the bibliography, where titles are listed under the names of authors, arranged in alphabetical order, and date of publication. When more than one paper by the same author in any year is quoted, these are distinguished by letters added to the year of publication.

There are two exceptions to this method of citation. Saccardo's Sylloge Fungorum and Zahlbruckner's Catalogus Lichenum universalis are quoted respectively as ' Sacc. Syll. Fung.' and ' Zahlbruckner Cat. Lich.', followed by the number of the volume in Roman figures and the page.

References to original descriptions are not included unless the type specimen was collected in South Africa.

List of Author's Names and Abbreviations.

Abbott.....	E. V. Abbott.....	—
Ach.....	Erik Acharius.....	1757–1819
Aderh.....	Rudolph Aderhold.....	1865–1907
Afzel	Adam Afzelius.....	1750–1837
Ains.....	G. C. Ainsworth.....	—
Alb.....	J. B. Albertini.....	1769–1831
Allesch.....	A. Allescher.....	1828–1903
Alm.....	J. V. d'Almeida.....	1855–1915
Anzi.....	M. Anzi.....	—
Appel.....	Otto Appel.....	—
Arn.....	F. Arnold.....	—
Arnaud.....	G. Arnaud.....	—
Arth.....	J. C. Arthur.....	1850–1942
Ashby.....	S. F. Ashby.....	—
Atk.....	G. F. Atkinson.....	1854–1918
Auersw.....	B. Auerswald.....	1818–1870
Bagl.....	F. Baglietto.....	1826–1916
Bailey.....	A. A. Bailey.....	—
Baillon.....	H. Baillon.....	—
Bailly.....	Amour Bailly.....	—
Bain.....	S. M. Bain.....	1869–1919
Bainier.....	G. Bainier.....	–1920
Bakke.....	A. L. Bakke.....	—
Bals.....	G. Balsamo-Crivelli....	—
Bancroft....	K. Bancroft.....	—
Bang.....	Henrik Bang.....	—
Barcl.....	A. Barclay.....	1852–1891
Basgal.....	Waldemar Basgal.....	—
Batsch.....	A. J. G. Batsch.....	1761–1802
Batt.....	A. Batarra.....	1714–1789
Bausch.....	Wilhelm Bausch.....	—
Beach.....	W. S. Beach.....	—
G. Beck....	G. Beck von Mannagetta	1856–1931
Beckm.....	Johann Beckmann.....	1739–1811
Beeli.....	M. Beeli.....	—
Bél.....	Ch. Bélanger.....	—
Bell.....	A. Bellynck.....	1814–1877
Beltr.....	F. Beltramini de Casati	—
Béreng.....	G. A. de Bérenger.....	1815–1895
Berk.....	M. J. Berkeley.....	1803–1889
Berkhout...	C. M. Berkhout.....	—
Berl.....	A. N. Berlese.....	1864–1903
Berthet.....	J. A. Berthet.....	—
Biourge.....	Ph. Biourge.....	—
Biroli.....	Giovanni Biroli.....	—
Bisby.....	G. R. Bisby.....	—
Bitanc.....	A. A. Bitancourt.....	—
Biv.-Bern...	A. de Bivona-Bernardi..	1774–1837
Bjerk.....	C. Bjerkander.....	1735–1795
Blume.....	C. L. Blume.....	1796–1862
Bodin.....	Eugéne and J. Almy Bodin	—
Boedijn.....	K. B. Boedijn.....	—
Boist.....	A. Boistel.....	—
Bolle.....	Pierrette C. Bolle.....	—
Bolley.....	H. L. Bolley.....	—
Bolt.....	James Bolton.....	–1799
Bomm.....	Elisa E. Bommer.....	1832–1910
Bon.....	H. F. Bonorden.....	1901–1884
Borr.....	W. J. Borrer.....	—
Bory.....	Jean Bory de St. Vincent	—
Bosc.....	Louis A. G. Bosc.....	1759–1828
Bottomley..	Averil M. Bottomley...	—
Boud.....	Emile Boudier.....	1828–1920
B. de Lesd..	M. Bouly de Lesdain...	—
Bourd.....	H. Bourdot.....	1861–1937
Br.....	C. E. Broome.....	1812–1886
Branth.....	J. S. Branth.....	—
Braun.....	A. Braun.....	1805–1877
Breda de Haan.....	Jacob van Breda de Haan	–1917
Bref.....	Oscar Brefeld.....	1839–1925
Bres.....	G. Bresadola.....	1847–1829
Bri.....	G. Briosi.....	1846–1920
Brick.....	Carl Brick.....	1863–1924
Brizi.....	Ugo Brizi.....	—
Brumpt.....	Emile Brumpt.....	—
Brun.....	Paul Brunaud.....	—
Brushi.....	? Brushi.....	—
Bubák.....	Franz Bubák.....	1865–1925
Buchanan....	R. E. Buchanan.....	—
Buchenau...	F. Buchenau.....	—
Buism.....	Christine J. Buisman..	1900–1936
Bull.....	P. Bulliard.....	1752–1793
Burkh.....	W. H. Burkholder.....	—
Burr.....	J. J. Burrill.....	1839–1916
Burt.....	Edward A. Burt.....	1859–1939
W. Busse...	Walter Busse.....	1865–1933
Butler.....	Edwin J. Butler.....	1874–1943
Calm.....	L. C. A. Calmette.....	1863–1933
Cam.....	M. de Souza da Camara	—
Carne.....	W. M. Carne.....	—
Carpenter...	C. W. Carpenter.....	—
Casp.....	J. X. R. Caspary.....	1818–1887
Cast.....	L. Castagne.....	1785–1858
Castellani...	Aldo Castellani.....	—
Catt.....	A. Cattaneo.....	—
Cav.....	F. Cavara.....	1857–1929
Ces.....	V. de Cesati.....	1806–1883
Chalmers...	Albert J. Chalmers.....	—
Chat.....	G. Adolphe Chatin.....	1813–1901
Chaub.....	L. A. Chaubard.....	—
Cheney.....	L. S. Cheney.....	1858–1938
Chester.....	F. D. Chester.....	1861–1943
Chev.....	F. F. Chevallier.....	1796–1840
Christopherson	J. B. Christopherson...	—
Chupp.....	Charles David Chupp...	—
Church.....	M. B. Church.....	—
Ciferri.....	Rafaele Ciferri.....	—
Claus.....	R. E. Clausen.....	—
Clem.....	F. E. Clements.....	—
Clint.....	G. P. Clinton.....	1867–1937
Clus.....	C. Clusius.....	—
Coem.....	E. Coemans.....	—
Coker.....	W. C. Coker.....	—
Cohn.....	F. J. Cohn.....	1828–1898
Colby.....	A. S. Colby.....	—
Cooke.....	M. C. Cooke.....	1825–1914
Corda.....	A. C. J. Corda.....	1809.1849
Cornu.....	M. M. Cornu.....	1843–1901
Cost.....	J. Costantin.....	1857–1936
Cotton.....	A. D. Cotton.....	—
Couch.....	J. N. Couch.....	—
Cromb.....	James M. Crombie.....	—
Crouan.....	P. L. and H. Crouan...	—
	P. L. Crouan.....	1798–1871
	H. M. Crouan.....	1802–1871
Cub.....	G. Cuboni.....	1852–1920
Cunn.....	G. H. Cunningham.....	—

Curr.....	F. Currey.....	1819–1881
Currie.....	J. N. Currie.....	—
Curt.....	M. A. Curtis.....	1801–1872
Cutler.....	Elliott C. Cutler.....	—
Dade.....	H. A. Dade.....	—
Dalla Torre.	K. W. v. Dalla Torre...	—
Dan.....	E. Y. Daniels.....	—
Darling.....	S. T. Darling.....	—
Dast.....	Jehangir F. Dastur.....	—
Davis.....	J. J. Davis.....	1852–1937
Dearn.....	John Dearness.....	—
DC.....	Aug. Pyr. de Candolle..	1778–1841
de Bary....	Anton de Bary.....	1831–1888
Del.....	D. F. Delise.....	—
Delacr.....	E. G. Delacroix.....	1858–1907
de Not.....	G. de Notaris.....	1805–1877
des Abb.....	H. des Abbayes.....	—
de Seyn.....	J. de Seynes.....	1833–1912
Desm.....	J. B. H. J. Desmaziéres	1786–1862
Despr.....	? Despréaux.....	—
Desv.....	A. N. Desvoux.....	1784–1856
de Toni.....	G. B. de Toni.....	1864–1924
Dickson or Dicks	James Dickson.....	1738–1822
Died.....	H. Diedecke.....	—
Diehl.....	W. W. Diehl.....	-
Dierckx.....	Fr. Dierckx.....	-
Diet.....	Paul Dietel.....	—
Dipp.....	B. J. Dippenaar.....	—
Ditm.....	L. P. Fr. Ditmar.....	—
Dodge.....	Carroll William Dodge	—
Doidge.....	E. M. Doidge.....	—
Dorogin....	Georg. N. Dorogin.....	—
Dors.....	P. H. Dorsett.....	1862–1943
Drechsl.....	Charles Drechsler.....	—
Duby.....	J. E. Duby.....	1798–1885
Ducom.....	V. Ducomet.....	—
Duf.....	J. M. L. Dufour.....	—
Dug.....	B. M. Duggar.....	—
du Pless.....	S. J. du Plessis.....	—
Durr.....	M. Ch. Durieu de Maisonneuve	1796–1878
du Rietz....	G. Einar du Rietz.....	—
Earle.....	F. S. Earle.....	1856–1929
Eaton.....	Amos Eaton.....	—
Edgert.....	C. W. Edgerton.....	—
Eds.....	H. A. Edson.....	—
Edwards....	E. T. Edwards.....	—
Ehrlich.....	J. Ehrlich.....	—
Ehrenb.....	C. G. Ehrenberg.....	1795–1876
Ehrht.....	Friedr. Ehrhart.....	—
Ell.....	J. B. Ellis.....	1829–1905
Erikss.....	Jakob Eriksson.....	1848–1931
Eschw.....	F. G. Eschweiler.....	—
Essary.....	S. H. Essary.....	1870–1935
Evans.....	I. B. Pole Evans.....	—
Everh.....	B. M. Everhart.....	1818–1904
Fabr.....	J. H. Fabre.....	1823–1915
Farquh.....	C. O. Farquharson.....	1888–1918
Fautr.....	F. Fautrey.....	—
Fawc.....	H. S. Fawcett.....	—
Fayod.....	V. Fayod.....	1860–1900
Fée.....	A. L. A. Fée.....	—
Ferraris....	Teodoro Ferraris.....	—
Alf. Fischer.	Alfred Fischer.....	1858–1914
Ed. Fischer.	Eduard Fischer.....	1861–1939
Fisch. v. Waldh.	A. A. Fischer von Waldheim	1839–1920
Fitz.....	H. M. Fitzpatrick....	—
Flagey.....	C. Flagey.....	—
Floerke.....	H. G. Floerke.....	—
Flotow.....	Julius von Flotow.....	—
Fr.....	Elias Magnus Fries.....	1790–1878
Th. Fr.....	Theodor Magnus Fries..	—
Frag.....	R. G. Fragoso.....	1862–1928
Frank.....	A. B. Frank.....	1839–1900
Frege.....	? Frege.....	—
Fres.....	J. B. G. W. Fresenius..	1808–1880
Fron	Georges Fron.....	—
Fick.....	K. W. G. L. Fuckel....	1821–1876
Funck.....	N. Funck.....	—
Gaill.....	Albert Gaillard.....	1858–1903
Gall.....	B. T. Galloway.....	1863–1938
Galz.....	A. Galzin.....	1853–1925
Garov.....	Santo Garovaglio.....	1805–1882
Gasp.....	G. Gasperini.....	—
Gaudich....	Charles Gaudichaud-Beaupré	1789–1854
Gäumann...	E. A. Gäumann.....	—
Gerard.....	W. R. Gerard.....	1841–1914
Giard.....	Alfred Giard.....	—
Gibbs.....	Thomas Gibbs.....	1865–1919
Gill. or Gillet	C. C. Gillet.....	1806–1896
Gillot.....	F. X. Gillot.....	1842–1910
Gilman.....	J. C. Gilman.....	—
Gmel.....	J. F. Gmelin.....	1748–1804
Godfrey....	G. H. Godfrey.....	—
S. F. Gray..	S. F. Gray.....	1766–1836
Grev.....	R. K. Greville.....	1794–1866
Griff.....	E. Griffon.....	1869–1912
Gross.....	J. G. Grossenbacher....	—
Grotenf.....	Gösta Grotenfelt.....	—
Grout.....	A. J. Grout.....	—
Grove.....	W. B. Grove.....	1848–1938
Gruby.....	David Gruby.....	—
Guba.....	E. F. Guba.....	—
Guill.....	Guillermond.....	—
Gyelin.....	V. Gyelnik.....	—
Hahn.....	G. G. Hahn.....	—
Hall.....	J. G. Hall.....	—
Halst.....	B. D. Halsted.....	1852–1918
Hampe.....	E. Hampe.....	—
E. C. Hansen	Emil Christian Hansen	—
H. N. Hansen	H. N. Hansen.....	—
Hansf.....	C. G. Hansford.....	—
Har.....	Paul A. Hariot.....	1854–1917
Hara.....	Kanesuke Hara.....	—
Harm.....	J. Harmand.....	—
Harrison....	F. C. Harrison.....	—
Harz.....	Carl Otto Harz.....	1842–1906
Hazsl.....	Friedr. A. Hazslinszky	1818–1896
Heald.....	P. D. Heald.....	—
Hedgcock...	G. G. Hedgcock.....	—
Hedw.....	J. Hedwig.....	1730–1799
Hedw. f.....	R. A. Hedwig.....	1772–1806
Henn.....	Ernst J. Henning.....	1857–1929
P. Henn....	Paul C. Hennings.....	1841–1908
Hepp.....	Phillip Hepp.....	—
Hesse.....	Rudolf Hesse.....	1844–1912
Hillm.....	Johannes Hillman.....	—
Hoffm.....	G. F. Hoffmann.....	1761–1826

H. Hoffn....	H. C. Hermann Hoffmann	1819–1891
Hollós.....	László Hollós.....	1859–1940
Holmsk.....	Th. Holm (previously Holmskjöld)	1732–1794
Holw.....	E. W. D. Holway.....	1853–1923
Hook.....	William Jackson Hooker	1785–1865
Hook f.. ..	Joseph Dalton Hooker	—
Hopkins....	J C F Hopkins..	—
Hori.....	Shôyarô Hori...	—
Hornem....	J. W. Hornemann	1770–1841
Howe jr....	Reg. H. Howe (jnr)...	—
Hudson....	William Hudson.....	1703–1793
Hue..	A. Hue.....	—
Ito..	Seiya Ito.....	—
Ivimey Cook	W. R. Ivimey Cook....	—
Jaap.....	Otto Jaap	1864–1922
Jacq.....	N. J. Jacquin.....	1727–1817
Jacz	A. A. de Jaczewski.. ..	1863–1932
James	J. F. James.....	1857–1897
Jamieson...	Clara O. Jamieson.....	—
Jatta..	Antonio Jatta.....	—
Jenkins.. ..	Anna E. Jenkins..	—
Jensen	J. L. Jensen...	1836–1904
Johns or J. Johnson	James Johnson..	—
Johnston...	J. R. Johnston.....	—
L R Jones	L. R. Jones.....	—
T A Jones	Theobald A. Jones....	—
Jørg.....	C. A. Jørgensen...	—
Jørst	Ivar Jørstad.....	—
Jungh	F. F. W. Junghuhn....	1809–1864
Kalchbr....	Károly Kalchbrenner..	1807–1886
Karst.....	P. A. Karsten.....	1834–1917
Kauff.....	C. H. Kauffman.....	1869–1931
Kellern	W. A. Kellerman.....	1850–1908
Kern	F. D. Kern...	—
Kev..	A. G. Kevorkian.	—
Kickx.....	Jean Kickx.....	1803–1864
Killerm.. ..	S. Killermann.....	—
King.....	Charlotte M. King.....	1864–1937
Kleb.....	H. Klebahn.....	1859–1942
Klotzsch.. .	J. F. Klotzsch.	1805–1860
Knight.....	Charles Knight.....	—
Koerb (see Körb)		
Koern	F. Koernicke	1828–1908
Koord.	S. H. Koorders.....	1828–1908
Körb.	G. W. Körber.....	–1885
Krass.....	J. M. Krassilstschik....	—
Krempelh..	Anton von Krempelhuber	—
Krombh....	J. V. von Krombholz..	1782–1843
Krüg.	Wilhelm Krüger.....	—
Kühn.....	Julius G. Kühn.	1825–1910
Kulk	G. S. Kulkarni	—
O. Kuntze..	Otto Kuntze.....	1843–1907
G. Kunze...	Gustav Kunze.	1793–1851
LaBill	J. J. de la Billardiére..	1755–1834
Lachner-Sandoval	Vicenzo Lachner-Sandoval	—
Laff.	H. A. Lafferty..	—
Lagerh.....	G. von Lagerheim... ..	1860–1926
Lam.....	J. B. A. P. M. de Lamarck	1774–1829
Lamb.....	J. B. Ernest Lambotte	1832–1905
Lambert. ..	E. M Lambert.....	—
Lamy.....	Edouard Lamy de la Chapelle	—
J. E. Lange	Jakob Emanuel Lange	—
Langeron...	Maurice Langeron... ..	—
Langl.....	A. B. Langlois..	1832–1900
Lasch.....	W. G. Lasch.....	1787–1863
Laub.	Karl Richard Laubert..	—
Laughton ..	Elaine M Laughton. ..	—
Laur.....	F. Laurer	—
Leb.....	Hermann Lebert..	1813–1878
Lehm.....	S. G. Lehman.....	—
Leight.. ...	W. A. Leighton..	—
Lendner....	A. Lendner	—
Lenz.....	H. O. Lenz...	1799–1870
Leon.....	Leon H. Leonian	—
Le Prévost.	Auguste le Prévost. ...	—
Lettau	G. Lettau.	—
Leus.....	Simeona Leus-Palo.. ..	—
Lév	J. H. Léveillé.....	1796–1870
Leyss	F. W. von Leysser.....	1731–1815
Lib.....	Marie Anne Libert.....	1782–1865
Libosch....	J. Liboschitz.....	–1824
Lind.....	Jens V. A. Lind.....	1874–1939
Lindau.....	Gustav Lindau.....	1866–1923
Linder... ..	David H. Linder..	—
Lindsay....	W. Lauder Lindsay....	—
Lingelsh....	A. Lingelsheim.....	1874–1937
Link.....	J. H. F. Link	1767–1851
Linn	Carl von Linné (Linnaeus)	1707–1778
Linn f. ...	Carl von Linné (Linnaeus f)	1741–1783
Lindr. or Liro	J. I. Liro, formerly Lindroth	—
Lister.....	Arthur Lister...	1830–1908
G. Lister...	Gulielma Lister.	—
Litsch	V. Litschauer	1870–1939
Lloyd.....	C. G. Lloyd.....	1859–1926
Louw	A. J. Louw	—
Lucand. ...	J. L. Lucand	1821–1896
Lucet.....	Adrien Lucet..	—
Ludw.....	Friedrich Ludwig... ...	1851–1918
Lynge	B. Lynge.....	—
Macbr	T. H. Macbride	1848–1934
MacCarthy.	Lee MacCarthy.....	—
MacKinnon.	J. E. MacKinnon..	—
MacOwan. .	Peter MacOwan	1830–1909
Magn	Paul Magnus.....	1844–1914
H Magnusson	A. H. Magnusson.....	—
Maire	René C. J. Maire... ...	—
Malme... ..	Gustav O. A. V. Malme	—
Mang	L. Mangin..	1852–1937
Marchal....	El. and Em. Marchal ..	—
	Élie Marchal.....	1839–1923
	Émile Julius Marchal	1871–
Marchion...	Juan B. Marchionatto..	—
Marign.....	G. B. Marignoni.....	—
Marloth ...	Rudolf Marloth.	1855–1931
Martin.....	G. H. Martin.....	—
Martius.....	Carl F. P. von Martius..	1794–1868
Mason.....	E. W. Mason.....	—
Mass.....	G. Massee.....	1850–1917

Massal.....	A. B. Massalongo.....	1824–1860
Massey.....	L. M. Massey.....	—
Matruch. or Matr.	Louis Matruchot.....	1863–1921
Matsum....	Takashi Matsumoto....	—
Mattir.....	Oreste Mattirolo.....	—
Maubl.....	André Maublanc.....	—
McAlp.....	D. McAlpine.....	1849–1932
McRae.....	W. McRae.....	—
Megl.....	G. Megliola.....	—
Merrill.....	G. K. Merrill.....	—
Metsch.....	Elias Metschnikoff.....	—
Mey.....	G. F. W. Meyer.....	1782–1856
Mich.....	P. A. Micheli.....	1679–1737
Michx.....	André Michaux.....	1746–1802
Milbrath....	John A. Milbrath.....	—
Miles.....	L. E. Miles.....	1890–1941
Miller.....	Julian H. Miller.....	—
Milochevitch	S. Milochevitch.....	—
Minks.....	Arthur Minks.....	—
Miq.....	F. A. W. Miquel.....	1811–1871
Mitra.....	Manoranjan Mitra.....	1895–1942
Miyabe.....	Kingo Miyabe.....	—
Miyake.....	Tsutome Miyake.....	—
Molliard....	M. Molliard.....	—
Mont.....	J. C. F. Montagne.....	1784–1866
Morg.....	A. P. Morgan.....	1836–1907
Motyka.....	Josef Motyka.....	—
Moug.....	J. B. Mougeot.....	1776–1858
Mudd.....	William A. Mudd.....	—
Müll.....	O. F. Müller.....	1730–1784
Müll.-Arg...	J. Müller (Argau).....	1826–1896
Munn.....	Mancel Thornton Munn	—
Murrill.....	W. A. Murrill.....	—
Nannf.....	J. A. Nannfeldt.....	—
Nannizzi....	Arturo Nannizzi.....	—
Nattrass....	R. M. Nattrass.....	—
Neck.....	Noël Joseph de Necker	—
Nees.....	C. G. D. Nees von Esenbeck	1776–1858
Nel.....	G. C. Nel.....	—
Niehaus....	C. G. Niehaus.....	—
Niels.....	P. Nielsen.....	1829–1897
Niessl.....	G. von Niesel.....	1839–1919
Nish.....	Toji Nishida.....	1874–1927
Nisikado....	Yosikazu Nishikado....	—
Nitschke....	Theodor Nitschke.....	1834–1883
Noack.....	Fritz Noack.....	—
Norm.....	J. M. Norman.....	—
Nowak.....	L. Nowakowski.....	—
Nowell.....	William Nowell.....	—
Nyl.....	William Nylander.....	1822–1899
E. Nym....	E. O. A. Nyman.....	1866–1900
Oed.....	G. C. Oeder.....	1728–1791
Oliv.....	H. Olivier.....	—
Opiz.....	P. M. Opiz.....	1787–1858
Osbeck.....	Pehr Osbeck.....	1723–1805
Otth.....	G. H. Otth.....	1806–1874
Oud.....	C. A. J. A. Oudemans..	1825–1906
Overh.....	L. O. Overholts.....	—
Pamm.....	L. H. Pammel.....	1862–1931
Pass. or Passer.	G. Passerini.....	1816–1893
Pat.....	N. Patouillard.....	1854–1926
Pazschke...	Otto Pazschke.....	1843–1922
Peck.....	C. H. Peck.....	1833–1917
Peglion.....	Vittorio Peglion.....	—
Penz.....	Otto Penzig.....	1856–1929
Perc.....	John Percival.....	—
Pers.....	C. H. Persoon.....	1761–1837
Petch.....	Thomas Petch.....	—
Pethybr....	G. H. Pethybridge.....	—
Petrak.....	Franz Petrak.....	—
Petri.....	Kionello Petri.....	—
Phill.....	William Phillips.....	1822–1905
Picard.....	F. Picard.....	—
Pierce.....	N. B. Pierce.....	1856–1916
Pijper.....	Adrianus Pijper.....	—
Plowr.....	C. B. Plowright.....	1849–1910
Poetsch.....	J. S. Poetsch.....	—
Poit.....	A. Poiteau.....	1766–1854
Pole Evans (see Evans)		
Porta.....	G. Porta.....	1540–1615
Potter.....	M. C. Potter.....	—
Preuss.....	C. G. T. Preuss.....	–1855
Priestley....	Henry Priestly.....	—
Prill.....	E. E. Prillieux.....	1829–1915
Pullinger....	B. Davidine Pullinger..	—
Putterill....	V. A. Putterill.....	—
Quél.....	Lucien Quélet.....	1832–1899
Rabenh.....	G. L. Rabenhorst.....	1806–1881
Rac.....	M. Rac borski.....	1863–1917
Ramond....	Louis Ramond.....	—
Rands.....	R. D. Rands.....	—
Rang.....	J. F. Rangel.....	—
Rav.....	H. W. Ravenel.....	1814–1887
Ravaz.....	L. E. Ravaz.....	1863–1937
Rayss.....	Tscharna Rayss.....	—
Rea.....	Carleton Rea.....	—
Rebent.....	J. F. Rebentisch.....	1772–1810
Redaelli....	Piero Redaelli.....	—
Reddick....	Donald Reddick.....	—
Redinger....	Karl Redinger.....	—
Reess.....	Max Reess.....	1845–1901
Rehm.....	H. Rehm.....	1829–1916
J. Reinke...	Johannes Reinke.....	1829–1916
Reinking....	O. A. Reinking.....	—
Relh.....	Richard Relhan.....	1753–1823
Remak.....	Robert Remak.....	—
Requien....	E. Requien.....	1788–1851
Retz.....	A. J. Retzius.....	1742–1821
Rex.....	G. A. Rex.....	—
Rick.....	Johann Rick.....	—
Riv.....	S. Rivolta.....	—
Roark.....	E. E. Roark.....	1894–1918
Roberts.....	J. W. Roberts.....	—
Robin.....	Charles Robin.....	—
Rodway.....	L. Rodway.....	—
Röhl.....	J. C. Röhling.....	1757–1813
Roll.....	L. L. Rolland.....	1841–1912
Romell.....	L. G. Romell.....	1854–1927
Rost.....	J. T. Rostafinski.....	1851–1928
Rostr.....	F. G. E. Rostrup.....	1831–1907
Roth.....	A. W. Roth.....	1757–1834
Roum.....	C. Roumeguére.....	1828–1892
Rouss.....	Mariette H. Rousseau..	–1926
Roze.....	E. Roze.....	1833–1900
Rud.....	Fr. K. L. Rudolphi....	1801–1849
Ryan.....	R. W. Ryan (Sister Mary Hilaire)	—

Sabourand...	Raimond Sabouraud...	—
Sacc.....	P. A. Saccardo.....	1845–1920
D. Sacc.....	Domenico Saccardo....	—
Sadeb.....	R. E. B. Sadebeck.....	1839–1905
Salm.....	E. S. Salmon.....	—
Sandst.....	Heinrich Sandstede....	—
Sard.....	J. R. Sardiña.....	—
Sarnth.....	Ludwig von Sarntheim.	—
Sartory.....	Auguste Sartory.....	—
Savul.....	Trajan Savulescu.....	—
Sawada.....	Kaneyoshi Sawada.....	—
Scalia.....	Giuseppe Scalia.....	—
Schaeff.....	J. C. Schaeffer.....	1718–1790
Schaer.....	L. E. Schaerer.....	—
Schilb.....	K. Schilberszky.....	1863–1935
Schleich....	J. C. Schleicher.....	1768–1834
Schm.....	J. K. Schmidt.....	1793–1850
Schrad.....	H. A. Schrader.....	1767–1836
Schrank....	F. P. von Schrank.....	1747–1835
Schreb.....	J. C. D. von Schreber..	—
Schroet.....	J. Schroeter.....	1837–1894
Schuler.....	J. Schuler.....	—
Schultz.....	C. F. Schultz.....	1765–1837
Schum.....	H. C. F. Schumacher...	1757–1830
Schw.....	L. D. von Schweinitz..	1780–1834
Schwend....	Simon Schwendener....	—
Scop.....	J. A. Scopoli.....	1723–1788
Seaver.....	F. J. Seaver.....	—
Secretan....	L. Secretan.....	1758–1839
Seeber.....	G. R. Seeber.....	—
Shaw.....	F. J. F. Shaw.....	1885–1936
Shear.....	C. L. Shear.....	—
Sheld.....	J. L. Sheldon.....	—
Sherb.....	C. D. Sherbakoff.....	—
Shirai.....	Mitsutaro Shirai.....	—
Shirley.....	J. Shirley.....	—
Siem.....	Wincenty Siemaszko....	—
Singer.....	Rolf Singer.....	—
Small.....	W. Small.....	—
A. L. Sm...	Annie Lorrain Smith...	1854–1937
C. O. Smith	Clayton O. Smith.....	—
E. F. Sm...	Erwin F. Smith.....	1854–1927
E. H. Sm...	Elizabeth H. Smith....	1877–1933
J. E. Sm....	James Edward Smith...	1759–1828
R. E. Sm...	Ralph E. Smith.....	—
W. G. Sm...	Worthington G. Smith..	1835–1917
Snyder.....	W. C. Snyder.....	—
Solh.....	W. G. Solheim.....	—
Sommerf....	Sören C. Sommerfelt..	1794–1838
Sopp.....	Olav Johan-Olsen Sopp	—
Sorokin.....	N. V. Sorokin.....	1846–1909
South.....	Effie A. Southworth....	—
Sow.....	James Sowerby.....	1757–1822
Spauld.....	P. Spaulding.....	—
Speare.....	A. T. Speare.....	—
Speg.....	C. Spegazzini.....	1858–1926
Spreng.....	Kurt P. J. Sprengel....	1766–1833
Starb.....	Karl Starbäck.....	—
Steiner.....	Julius Steiner.....	—
Steinm.....	A. Steinman.....	—
Steud.....	Ernst Gottlieb Steudel	—
Stev.....	F. L. Stevens.....	1871–1934
N. E. Stev..	N. E. Stevens.....	—
Stewart.....	F. C. Stewart.....	—
Stirt.....	James Stirton.....	—
Stizenb.....	E. Stizenberger.....	—
Stoddard...	James L. Stoddard.....	—
Stoll.....	O. Stoll.....	—
Stone.....	G. E. Stone.....	—
Stonem.....	Bertha Stoneman.....	1866–1943
Stout.....	G. L. Stout.....	—
Strauss.....	F. C. J. von Strauss....	1787–1855
Sturgis.....	W. C. Sturgis.....	1862–1942
Sw.....	Olof Peter Swartz.....	1760–1818
Swing.....	W. T. Swingle.....	—
Syd.....	Hans Sydow.....	1879–
	Paul Sydow.....	1851–1925
Talice.....	Rudolfo V. Talice.....	—
Tan.....	Tyozaburo Tanaka.....	—
Tassi.....	Flaminio Tassi.....	—
Taubenh....	J. J. Taubenhaus.....	1885–1937
Thaxt.....	R. Thaxter.....	1858–1932
Tayl.....	Thomas Taylor.....	—
Teh.....	L. R. Tehon.....	—
Theiss.....	F. Theissen.....	1877–1919
Thom.....	Charles Thom.....	—
Thuem.....	F. von Thuemen.....	1839–1892
Thunb.....	Carl Pehr Thunberg....	1743–1828
Tirab.....	Carlo Tiraboschi.....	—
Tisd.....	W. B. Tisdale.....	—
Tode.....	H. J. Tode.....	1733–1797
Togn.....	Filippo Tognini.....	1866–1896
Torn.....	Francesco Tornabene...	—
Torrend....	Camillo Torrend.....	—
Tourn.....	J. P. de Tournefort....	—
Tracy.....	S. M. Tracy.....	1847–1920
Trail.....	J. W. H. Trail.....	1851–1939
Tranzsch....	W. A. Tranzschel.....	—
Trav.....	G. B. Traverso.....	—
Trel.....	W. Trelease.....	—
Trevis.....	Vittore Trevisan.....	1818–1897
Trinch.....	G. Trinchieri.....	—
Trott.....	Alessandro Trotter.....	—
Trow.....	A. H. Trow.....	1863–1939
Tuckerm....	Edward Tuckerman....	1817–1886
Tul.....	L. R. Tulasne.....	1815–1885
	C. Tulasne.....	1816–1884
Turc.....	M. Turconi.....	1879–1929
Turn.....	Dawson Turner.....	—
Unger.....	Franz Unger.....	1800–1870
Uppal.....	B. N. Uppal.....	—
Vahl.....	M. H. Vahl.....	1749–1804
Vaill.....	Sébastian Vaillant.....	1669–1722
Vain.....	E. A. Vainio (see also Wainio)	—
van Breda..	J. van Breda de Haan..	—
v. d. Byl....	P. A. van der Byl.....	1888–1939
v. Schrenk..	H. von Schrenk.....	—
van Tiegh....	P. E. L. van Tieghem..	1839–1914
Vent.....	E. P. Ventenat.....	—
Verw.....	Len Verwoerd.....	—
Vi.....	Pierre Viala.....	1859–1936
Viand-Gr.-Marais	A. Viand-Grand-Marais.	—
Vincent.....	H. Vincent.....	—
Vitt.....	C. Vittadini.....	1800–1865
Vivian.....	D. Viviani.....	1772–1840
Vize.....	John E. Vize.....	1830–1916
Vogl.....	P. Voglino.....	1864–1933
Volkart.....	Albert Volkart.....	—
von Höhn....	F. von Höhnel.....	1852–1920
Vouaux.....	Leon Vouaux.....	1870–1914
Vuill.....	P. Vuillemin.....	1861–1932

Wadk.....	R. F. Wadkins.....	—
Wahlbg.....	Göran Wahlenberg.....	1780–1851
Wain.....	E. A. Wainio (later (Vainio)	1853–1929
Wakef.....	Elsie M. Wakefield.....	—
Wallr.....	C. F. W. Wallroth.....	1792–1857
Web.....	G. H. Weber.....	—
Wedd.....	H. A. Weddell.....	—
Weese.....	Josef Weese.....	—
Wehm.....	L. E. Wehmeyer.....	—
Weinm.....	J. A. Weinmann.....	1782–1858
Weiss.....	F. A. Weiss.....	—
Welch.....	D. S. Welch.....	—
Welw.....	F. Welwitsch.....	1807–1872
Went.....	F. A. F. C. Went.....	1863–1935
Werd.....	E. Werdermann.....	—
Wernham...	C. C. Wernham.....	—
Wernicke...	Robert Wernicke.....	—
West.....	G. D. Westendorp.....	1813–1868
Westling....	R. Westling.....	—
Weston.....	W. H. Weston.....	—
Wettstein...	R. von Wettstein.....	1863–1931
Wiggers....	F. H. Wiggers.....	—
Wilcox.....	E. M. Wilcox.....	–1920
Willd.....	C. L. Willdenow.....	1765–1812
Willey.....	Henry Willey.....	—
Wiltsh.....	S. P. Wiltshire.....	—
Wingate....	H. Wingate.....	—
Wint.....	G. Winter.....	1848–1887
With.....	William Withering.....	1774–1799
Wolf.....	F. A. Wolff.....	—
Wollenw....	H. W. Wollenweber....	—
Worom.....	M. S. Woronin.....	1838–1903
Woronich...	N. Woronichine.....	—
Wrobl.....	Anton Wróblewski.....	—
Wulf.....	F. X. von Wulfen.....	1728–1805
Yam.....	Wataro Yamamoto.....	—
Yoshino....	Kiichi Yoshino.....	—
Yukawa....	K. Yukawa.....	—
Zach.....	F. Zach.....	—
Zahlbr.....	Alexander Zahlbruckner	1860–1938
Zal.....	K. Zaleski.....	—
Zeller.....	Sanford M. Zeller.....	—
Zenk.....	Jonathan Carl Zenker..	—
Zimm.....	A. Zimmermann.....	1860–1931
Zoll.....	H. Zollinger.....	1818–1859
Zopf.....	F. W. Zopf.....	1846–1909
Zundel.....	G. L. I. Zundel.....	—
Zwackh.....	Wilhelm von Zwackh-Holzhausen	—

Grateful thanks are due to Miss E. M. Wakefield for revising the list of author's names, for indicating standard abbreviations and for filling in details not available in South Africa.

MYXOMYCETES

(*MYCETOZOA.*)

EXOSPOREAE.

CERATIOMYXACEAE.

Ceratiomyxa fruticulosa Macbr.

Lister (1925) 4; Duthie (1917) 300; van der Byl (1922 d) 282; Hopkins (1938 a) 98.
Ceratium hydnoides Alb. & Schw., Kalchbrenner (1882 b) 27; Sacc. Syll. Fung. IV: 598; Bottomley (1916) 425.
Ceratium sphaeroideum Kalchbrenner & Cooke (1880) 22.
on decayed wood and bark, Boschberg, *Macowan 1050*, (S.A.M. 33322) & *Macowan 1284*, 22022; Inanda, *Medley Wood 521*, 10179, 9497; Knysna, *Duthie 23*; Stellenbosch, *Duthie*; Potchefstroom, *Goossens*, 27319,; Salisbury, *Eyles 4333*.

Var. **flexuosa** Lister

Lister (1925) 4; Duthie (1917) 300.
Ceratium arbuscula Berk. & Br., Torrend (1905) 217.
on moist logs and rotton wood, without locality, *Duthie;* near Wonderboom, *Doidge & Bottomley*, 28803; Moçambique (Torrend).

Var. **porioides** Lister

Lister (1925) 5.
on rotten wood, South Africa, without locality.

ENDOSPOREAE.

PHYSARACEAE.

Badhamia affinis Rost.

Lister (1925) 16.

on **Passiflora** sp., Schagen, *Liebenberg*, 28805.
on **Quercus** sp., old oak bough, Belvidere, Knysna, *Duthie 114*; on dead wood, Knysna, *Duthie 20*.
on moss and on bark of dead and living trees, Knysna, *Duthie 147*.

Badhamia foliicola Lister

on dead leaves and twigs, Kaapmuiden, *H. A. Wager*, 7414.

Badhamia macrocarpa Rost.

on **Aloe** sp., decayed stem, Fort Beaufort, *Moore*, 25453.
on decayed leaf, Stellenbosch, *Duthie 158*; on bark, Boschfontein, *Doidge & Bottomley*, 30686.

Badhamia nitens Berk.

Lister (1925) 14.
on dead wood, South Africa, without locality.

Badhamia rubiginosa Rost. var. **dictyospora** Lister

Lister (1925) 19, 20.
on fallen leaves and brushwood, South Africa, without locality.

Badhamia utricularis Berk.

Lister (1925) 12; Van der Byl (1922 d) 282, (1929 b) 101.
Badhamia varia Mass., Cheesman (1909) 413.
on tree stumps and on decaying wood, Port Elizabeth, *Cheesman;* East London, *Cheesman;* Stellenbosch, *Duthie 33*; Jonkershoek, *Duthie 96*; Belvidere, Knysna, *Duthie 110*; without locality, *M. Pole Evans*, 14670, 14671, 14672; near Rhodes Memorial, Rondebosch, *J. Acocks*, (E. L. Stephens 377).

Badhamia sp.

Duthie (1917) 300.
on **Populus** sp., decayed log, Cape Peninsula, *Pocock*, (Duthie 188).
on dead bark, Stellenbosch.

Cienkowskia reticulata Rost.

Lister (1925) 73.
on dead wood, in poplar bush, Potchefstroom, *Goossens*, 27317; Forest Hall, Knysna, *Duthie 119*; Belvidere, Knysna, *Duthie 117*.

Craterium aureum Rost.

Lister (1925) 79, 80.
on dead leaves, Cape of Good Hope.

Craterium leucocephalum Ditm. var. **scyphoides** Lister

Lister (1925) 78, 79.
on dead leaves and twigs, Cape of Good Hope.

Craterium minutum Fr.

Lister (1925) 75; Duthie (1917) 303.
Craterium confusum Massee (1892 a) 264.
on leaves and twigs, Natal.

Diachaea leucopoda Rost.

Kalchbrenner (1882 a) 143; Cheesman (1909) 413; Lister (1911) 119, (1925) 101; Massee (1892 a) 260; van der Byl (1922 d) 282; Doidge & Bottomley (1931) 35.
Diachaea elegans Fr., Lister (1894) 91.
on **Fragaria** sp., Potchefstroom, *Saunders*, 20592, 20609; Stellenbosch, *Bulmer*, 9044; Onderstepoort, *Bisschop*, 33451.
Solanum nigrum Linn., Garstfontein, *Pienaar*, 2084.
on dead and living leaves, dead twigs and bark, Inanda, *Medley Wood 139*, Kew; Rain Forest, Victoria Falls, *Cheesman;* Swaziland, *Bolus, 310*; Knysna, *Pienaar*, 2349; The Willows, *v. d. Byl*, 5603; Garstfontein, *Pienaar*, 6583; Groenkloof, *Bottomley*, 23209; Fountains Valley, *Bottomley*, 20607; De Beers Rust, *Doidge*, 30679 & *Hean*, 30525; Stellenbosch, *Duthie 5*; Rondebosch, *M. A. Pocock* (E. L. Stephes 539).

Diderma effusum Morg.

Duthie (1918) 458 ; van der Byl (1922 d) 282 ; Lister (1925) 85.
on dead leaves and twigs, Stellenbosch, *Duthie 29*, 44.

Diderma hemisphericum Hornem

Lister (1925) 84.
on dead leaves and twigs, Forest Hall, Knysna, *Duthie 58* ; Stellenbosch, *Loseby* (Duthie 159).

Diderma subdictyospermum Lister

Lister (1911) 101 ; Duthie (1917) 303.
Chondrioderma subdictyospermum Rost., Lister (1894) 77.
on moss and dead leaves, Cape of Good Hope, Kew.

Fuligo cinerea Morg.

Lister (1925) 69 ; Hopkins (1938 a) 98.
on **Carica Papaya** Linn., on leaves, Hartley (Rh. 1051).
on bark, in poplar bush, Potchefstroom, *Goossens*, (Duthie 175) 27808 ; Mountain Ravine, Stellenbosch, *Duthie 135* ; on garden soil, Hunters' Road (Rh. 1141).

Fuligo muscorum Alb. & Schw.

on leaves and twigs in poplar grove, De Beers Rust. *Hean*, 30484.

Fuligo septica Gmel.

Lister (1894) 66, (1911) 86, (1926) 66 ; Duthie (1917) 302 ; Van der Byl (1922 d) 282 ; Verwoerd (1931 a) 298.
Aethalium septicum Fr., Berkeley (1876 a) 175.
Fuligo varians Sommerf., Massee (1892 a) 340.
on decayed wood and leaves, Groot Schuur, *Eaton*, Kew ; Knysna, *Duthie 18* ; Klapmuts, *v. d. Byl 383*, 31719 ; Stellenbosch and Kirstenbosch, *Duthie ;* without locality, Kew ; Bloemfontein, *Verwoerd*, and *Potts*, 13005 ; Clanwilliam, *Duthie ;* Newlands, *E. P. Phillips*, (S.A.M. 9553) and *Péringuey*, 9181, 9182 ; Lion's Head, *M. Pole Evans*, 14478 ; Deepwalls, *J. Phillips*, 18027, 18152 ; Pretoria, *Wager*, 24892, *Bottomley*, 17715, *Schweickerdt*, 30524 ; Brooklyn, *Doidge*, 30683 ; Daspoort, *Kresfelder*, 9187 ; Horn's Nek, *Sichel*, 31000 ; Groenkloof, *Bottomley*, 14527 ; in poplar bush, Potchefstroom, *Goossens*, 27323, 27325 ; De Beers Rust, *Doidge*, 30682 ; Hogsback, *K. M. Putterill*, 30812 ; Vereeniging, *L. C. Turner*, 9188 ; Stikland and University Grounds, Rondebosch, *J. Acocks* (E. L. Stephens 169, 541) ; Johannesburg, *Blackburn*, 32312 ; Tebetabeng Mill, *Hean*, 33492.

Leocarpus fragilis Rost.

Duthie (1917) 303 ; van der Byl (1922 d) 282 ; Lister (1925) 80 ; Hopkins (1938 a) 98.
on dead leaves and bark : on pine needles, Stellenbosch, *Duthie 49, 128* ; Papegaaisberg, *Duthie 140* ; Stellenbosch, *Niewoudt*, (Stell. 564) ; Potchefstroom, *Goossens*, 27328 ; on pine needles and bark, Hogsback, *K. M. Putterill*, 30808 ; on oak leaves and twigs, Kirstenbosch, *Bottomley*, 24848 ; on pine needles, Univ. Grounds, Rondebosch, *E. L. Stephens 538* ; Salisbury, *Eyles* 6641.

Physarella oblonga Morg.

Lister (1925) 73.
on dead wood, Forest Hall, Knysna, *Duthie* 111.

Physarum auriscalpium Cooke

Lister (1925) 39 ; van der Byl (1922 d) 282, (1929 b) 101 ; Verwoerd (1931 a) 298.
on dead wood, south-western Cape, *v. d. Byl ;* Brenton, Knysna, *Duthie* 169 ; on dead pine needles, Bloemfontein, *Verwoerd ;* Stellenbosch, *Duthie 50* and ? *Loseby* (Duthie 161).

Physarum bitectum Lister

Lister (1925) 59 ; Macbride (1934) 56.
on decaying leaves and wood, Belvidere, Knysna, *Duthie 107*, 27302 ; in poplar bush, Potchefstroom, *Goossens*, 27318.

Physarum bogoriense Rac.

Lister (1925) 58.
on dead leaves, Forest Hall, Knysna, *Duthie 66* ; Belvidere, Knysna, *Duthie 113*.

Physarum cinereum Pers.

Cooke (1879 b) 70, (1880) 14 ; Kalchbrenner (1882 a) 143 ; Sacc. Syll. Fung. VII : 344 ; Lister (1894) 55, (1925) 53 ; Duthie (1917) 301 ; Hopkins (1939 a) 10 ; Doidge & Bottomley (1931) 12, 35.
Physarum capense Rost., Massee (1892 a) 309 ; Sacc. Syll. Fung. VII : 344.
on **Cephalandra** sp., Southern Rhodesia, *Hopkins*.
Cynodon transvaalensis Burtt Davy, Arcadia, *Punt*, 16997 ; Sunnyside, *Kresfelder*, 29947.
Cynodon sp., Pietersburg, *Trollope*, 16998 ; Grootfontein, *Gill*, 20359.
Digitaria sp., Beestekraal, *E. du Toit*, 26610.
Euphorbia splendens Boj., Arcadia, *Fouché*, 14636.
Medicago sativa Linn., Pyramids, *Frayne & Maynard*, 14250 ; Ferreira, 21930.
Pennisetum clandestinum Hochst., Cedara, 24880.
Sorghum sp., Pietersburg, *Trollope*, 16999.
on turf, lucerne, etc., abundant after rain, Inanda, *Medley Wood 429*, 3493, Kew ; on bark, *Medley Wood 425* ; Natal, Kew ; Somerset East, *MacOwan ;* Knysna and Stellenbosch, *Duthie ;* Arcadia, *van Nouhuys*, 25984 ; Natal, *Duthie 123, 124* ; Bloemfontein, *Potts* (Duthie 151).

Physarum citrinum Schum.

Duthie (1917) 302 ; Sacc. Syll. Fung. VII : 340 ; Lister (1925) 30.
on dead wood and leaves, without locality, *Duthie ;* Cape, *MacOwan*, Kew.

Physarum columbinum Sturgis.

Lister (1925) 31.
Physarum compactum Lister, Duthie (1918) 456.
on dead wood, Cape Province, without locality.

Physarum compressum Alb. & Schw.

Lister (1925) 49.
on dead leaves and twigs, widely distributed over Africa ; Winterhoek Mountain, *Rottman* (Duthie 155) ; Stellenbosch, *Loseby* (Duthie 160).

Physarum confertum Macbr.

on dead bark, Maritzburg, *Rump*, 27633.

Physarum didermoides Rost.

Lister (1894) 54, (1925) 45; Duthie (1917) 301.
on dead wood and leaves, Zululand and Natal, Kew.

Physarum digitatum Farquh. & G. Lister.

Farquharson & Lister (1916) 128; Lister (1925) 65.
on dead wood, Forest Hall, Knysna, *Duthie 112.*

Physarum flavicomum Berk.

Lister (1925) 38.
on dead wood, Knysna, *Duthie 70.*

Physarum gyrosum Rost.

on leaves, twigs and soil in poplar grove, de Beers Rust, *Hean*, 30484.

Physarum javanicum Rac.

Lister (1925) 49.
on dead wood, twigs and grass, Cape Province.

Physarum leucopus Link.

Duthie (1917) 302; Sacc. Syll. Fung. VII: 343; Lister (1925) 24.
on dead leaves, without locality, *Duthie.*

Physarum melleum Mass.

Lister (1925) 25; Duthie (1917) 300; Hopkins (1938 a) 98.
Physarum Kalchbrenneri Massee (1892) 297; Sacc. Syll. Fung. XI: 462.
on wood, Cape, Kew; Forest Hall. Knysna, *Duthie* 2; de Beers Rust, *Doidge*, 30684; on soil, Salisbury, *Eyles* 6642 (Duthie 176).

Physarum mutabile Lister.

Lister (1911) 53, (1925) 32; Duthie (1917) 300.
on dead leaves and stems, Groenkloof, *Pole Evans*, 8763; Belvidere, Knysna, *Duthie 71.*

Physarum nucleatum Rex.

Lister (1925) 43.
on **Salix** sp., dead branch, Maritzburg, *J. M. Sim*, 8804.
on dead wood, Knysna, *Duthie 22, 68, 78*; Forest Hall, Knysna, *Duthie 64.*

Physarum nutans Pers.

Lister (1925) 46; Duthie (1917) 301.
Tilmadoche nutans Rost., Kalchbrenner (1882 a) 143. Sacc. Syll. Fung. VII: 359; Cheesman (1909) 413.
on dead wood, Somerset East, *MacOwan 1305*; in Palm Kloof, Victoria Falls, *Cheesman;* Umkomaas, *Cheesman:* Vereeniging, *Hardenberg*, 1024; in poplar bush, Potchefstroom, *Goossens*, 27308, 27314; Jonkershoek, *Duthie 102*: Salisbury, *Eyles* (Duthie 168); Knysna, *Duthie 73, 85, 125*; Nottingham Road, *v. d. Byl 546*, 31809.

Var. **leucophaeum** Lister.
Duthie (1917) 301.
Physarum leucophaeum Fr., Kalchbrenner (1882 a) 143., Massee (1892 a) 289; Sacc. Fung. VII: 345.
on wood, Boschberg, *MacOwan 1051*, 20810; in poplar bush, Stellenbosch, *Duthie 38*; Jonkershoek, *Duthie 97*.

Physarum penetrale Rex.
Lister (1925) 41.
on charred wood, Knysna, *Duthie 24*.

Physarum pusillum Lister.
Lister (1925) 44; Duthie (1917) 300; van der Byl (1922 d) 282.
on twigs, dead leaves and bark, south-western Cape, *v. d. Byl*: Hogsback, *K. M. Putterill*, 30809; in poplar bush, Potchefstroom, *Goossens*, 27322; in poplar bush, de Beers Rust, *K. M. Putterill*, 30680; without locality, *Duthie 37*; Stellenbosch, *Duthie* 46; Forest Hall, Knysna, *Duthie 59, 65, 144*; Belvidere, Knysna, *Duthie 167*.

Physarum roseum Berk. & Br.
Lister (1925) 33.
on dead wood and leaves, South Africa.

Physarum sinuosum Weinm.
Lister (1925) 58; van der Byl (1922 d) 282.
on dead leaves and twigs, Stellenbosch, *Duthie 48*.

Physarum tenerum Rex.
on dead wood in kloof, Boschfontein, *Doidge*, 30685.

Physarum vernum Sommerf.
Lister (1925) 54; van der Byl (1922 d) 282, (1929 b) 101; Doidge & Bottomley (1931) 12; Hopkins (1938 a) 98.
on **Cynodon** sp., Daspoort, *Pole Evans* 94.
Caucus carota L. var. **sativa** DC., Pretoria, *van der Vyver*, 25507.
Gerbera sp., Daspoort, *Pole Evans*, 95.
on grass, Nylstroom, *Prance*, 12520; Turffontein, 14255; Leeuwdoorns, *Strauss*, 2102; Pretoria, *H. A. Wager*, 5187; and *Acocks*, 30663; Christiana, *Burtt Davy*, 2212; Pienaars Poort, *Pole Evans, 637*; Belvidere, Knysna, *Duthie 1*: Salisbury, *Kopkins*, (Rh. 3701) 30802.
on bark, Xumeni Forest, *Doidge*, 30851; on dead leaves and twigs, Natal, *Duthie 120, 122*; Baviaans Poort, *C. E. Moss* 98; on soil, Salisbury, *Eyles* 6642.

Physarum viride Pers.
Duthie (1917) 300; Lister (1925) 35.
Tilmadoche mutabilis Rost., Kalchbrenner (1882 a) 143; Massee (1892) 329.
Tilmadoche viridis (Gmel.) Sacc. Syll. Fung. VII: 360.
on dead wood, Somerset East, *MacOwan*; Forest Hall, Knysna, *Duthie 60, 115*; Brenton, Knysna, *Duthie 173*.

Var. **aurantium** Lister.

Lister (1925) 36.

on dead wood, Belvidere, Knysna, *Duthie 10*; Forest Hall, Knysna, *Duthie* 116.

Var. **incanum** Lister.

Lister (1925) 36.

on dead wood, South Africa.

Trichamphora pezizoidea Jungh.

Kalchbrenner (1882 a) 143; Lister (1894) 89, (1911) 90, (1925) 71; Duthie (1917) 303.

on dead wood, Somerset East, *MacOwan 1159*; Natal.

DIDYMIACEAE.

Didymium difforme Duby

Duthie (1918) 458; van der Byl (1922 d) 282; Lister (1925) 109.

Chondrioderma difforme Rost., Cheesman (1909) 412.

on dead leaves and decaying herbaceous stalks, in Rain Forest, Victoria Falls, *Cheesman;* Umtali, *Cheesman;* Stellenbosch, *Duthie 47*; Bloemfontein, *Potts* (Duthie sine no.).

Didymium melanospermum Macbr.

Duthie (1918) 458; Lister (1925) 114–116.

Didymium physaroides Fr., Kalchbrenner (1882 a) 143; Massee (1892 a) 234.

on dead wood, twigs and leaves, especially of Conifers, without locality, *Duthie;* Inanda, *Medley Wood 198*; Pretoria, *Punt*, 17018; Irene, *M. Pole Evans*, 23210.

Didymium nigripes Fr.

Duthie (1918) 458; Lister (1925) 116; Hopkins (1938 a) 98.

Didymium microcarpon Rost., Kalchbrenner (1882 a) 143; Sacc., Syll. Fung. VII: 382.

on dead leaves and twigs, Somerset East, *MacOwan;* Salisbury, *Eyles 4118*; Forest Hall, Knysna, *Duthie 43*; Johannesburg, *C. E. Moss* (Duthie 154); on pine needles, Papegaaisberg, *Duthie 142*.

Var. **eximium** Lister

Lister (1925) 116.

on dead leaves and twigs, Newlands woods *E. L. Stephens 381*.

Var. **xanthopus** Lister

Duthie (1918) 458; Lister (1894) 98, (1925) 116; van der Byl (1922 d) 282.

on **Phytolacca** sp., stump, Belvidere, Knysna, *Duthie 13*.

on dead leaves and twigs, Stellenbosch, *Duthie 42, 56, 109*: Pretoria, *Duthie 74*.

Didymium squamulosum Fr.

Duthie (1918) 458; Lister (1925) 117.

Didymium leucopus Fr., Kalchbrenner (1882 a) 143.

on dead leaves, Somerset East, *MacOwan;* Belvidere, Knysna, *Duthie 108, 108 a*: Knysna, *Duthie 25, 67*; Forest Hall, Knysna, *Duthie 171*; Zwartkop Forest, Natal, *Duthie 57*; Stellenbosch, *Loseby* (Duthie 160 a); on old sedge leaves, without locality, *Duthie 163*

Mucilago spongiosa Morg.

Duthie (1918) 459 ; Lister (1925) 123.
Spumaria alba DC., Massee (1892 a) 257.
on grass and dead leaves, Stellenbosch, *Loseby*, 27303 ; Stellenbosch, *Duthie 157*.

STEMONITACEAE.

Comatricha irregularis Rex

? on dead wood and bark, Xumeni Forest, *Doidge*, 30852.

Comatricha longa Peck

Duthie (1917) 306 ; Lister (1925) 148.
on dead wood, Cape and South-West Africa (Brit. Mus.) ; Knysna, *Duthie 21*.

Comatricha nigra Schroet.

Lister (1925) 141 ; van der Byl (1922 d) 282, (1929 b) 101.
Stemonitis Friesiana de Bary, Cheesman (1909) 412.
on dead wood, Bloemfontein, nr. Sannah's Post, *Cheesman ;* Stellenbosch, *Duthie 36, 86, 136* ; Newlands, *E. L. Stephens 378*.

Var. **alta** Lister
Lister (1925) 142.
on dead wood, Cape.

Comatricha tenerrima G. Lister

? on dead twig, Tebetabeng Mill, *Hean*, 33493.

Comatricha typhoides Rost.

Duthie (1918) 458 ; Lister (1925) 145.
on decayed wood, in poplar bush, Potchefstroom, *Goossens*, 27311 ; Belvidere, Knysna, *Duthie 6* ; Brenton, Knysna, *Duthie 91* ; Kirstenbosch, *Duthie 31* ; Nottingham Road, *v. d. Byl 545*, 31808.

Enerthenema papillatum Rost.

? on dead wood, along Aapies R., near Zoo, Pretoria, *Scott*, 33769.

Lamproderma scintillans Morg.

Duthie (1917) 306 ; van der Byl (1922 d) 282 ; Lister (1925) 153.
on moss and roots of epiphytic orchids in greenhouse, Stellenbosch, *Duthie ;* ? on dead leaves in poplar bush, Potchefstroom, *Goossens*, 27321.

Lamproderma violaceum Rost.

? on dead wood, Town Bush Valley, *Rump*, 29539.

Stemonitis ferruginea Ehrenb.

Duthie (1918) 458 ; Lister (1925) 138.
on dead wood and bark, Forest Hall, Knysna, *Duthie 93* ; Hogsback, *K. M. Putterill*, 30810 ; Newlands, *E. L. Stephens 379*.

Stemonitis fusca Roth.

Berkeley (1876 a) 175 ; Kalchbrenner (1882 a) 143 ; Massee (1892 a) 73 : Cheesman (1909) 412 ; Lister (1925) 132 ; van der Byl (1920 b) 101 ; Verwoerd (1931 a) 298.

on decaying wood, Maritzburg, *Cheesman :* Somerset East, *MacOwan 1173*, 20948 (S.A.M. 33338) ; Inanda, *Medley Wood 206*, 10655 ; Groot Schuur, *Eaton ;* south-western Cape, *v. d. Byl ;* on decaying organic matter in silo, Bloemfontein, *Verwoerd.*

on timber in storage, Exchange Yard, Johannesburg, (T.R.L. 1423).

Stemonitis herbatica Peck

Duthie (1918) 458 ; Lister (1925) 137 ; Hopkins (1938 a) 98.

on **Nicotiana tabacum** Linn., seedlings, Salisbury, *Jack*, 5190.

on dead wood and leaves, Salisbury, *Duthie 76* ; Forest Hall, Knysna, *Duthie 11.*

Stemonitis pallida Wingate

on bark and wood, Hogsback, *K. M. Putterill*, 30811.

Stemonitis splendens Rost.

Duthie (1918) 458 ; Lister (1894) 114, (1911) 145, (1925) 135 ; van der Byl (1922 b) 282.

Stemonitis acuminata Massee (1892 a) 78 ; Sacc. Syll. Fung. XI : 467.

Stemonitis maxima Massee (1892 a) 74.

on decayed wood, Natal, *Medley Wood 206*, Kew ; Table Mt., *Eaton*, Kew ; Kentani, *Pegler 2457*, 11522 ; Deepwalls, *J. Phillips*, 18154 ; Pretoria, *Pole Evans*, 8824 ; Wonderboom, *Roberts*, 2550 ; Schagen, *Liebenberg*, 28518 ; Buccleuch, *Leighton*, 11527 ; Xumeni Forest, *Doidge*, 30850 ; Stellenbosch, *Duthie 150, 153* ; Cape, *MacOwan 1173* Kew ; Brenton, Knysna, *Duthie 87* ; Pretoria Distr., *Duthie 75* ; Kirstenbosch *E. L. Stephens 540* ; Klapmuts, *v. d. Byl 382*, 31718 ; Buffelspoort, *Turner*, 33594.

Var. **Webberi** Lister

Duthie (1918) 458 ; Lister (1894) 112, (1925) 135 ; van der Byl (1922 d) 282.

on dead wood, Stellenbosch, *Duthie ;* near Gwelo, *E. L. Stephens.*

AMAUROCHAETACEAE.

Amaurochaete fuliginosa Macbr.

on dead coniferous wood, Newlands, *Péringuey*, 9183, *E. P. Phillips* (S.A.M. 9554) ; Potchefstroom, *Goossens*, 27327 ; Bloemfontein, *Potts*, 13006 ; Pretoria, *Davison*, 15460 ; Irene, *M. Pole Evans*, 17086.

HETERODERMACEAE.

Cribraria argillacea Pers.

Duthie (1917) 307 ; Lister (1925) 170 ; van der Byl (1922 d) 282.

on dead coniferous wood, Papegaaisberg, Stellenbosch, *Duthie* 25 ; Belvidere, Knysna *Duthie* 127.

Cribraria intricata Schrad.

Lister (1925) 174 ; van der Byl (1929 b) 101.

on dead wood, Belvidere, Knysna, *Duthie* 14.

Cribraria tenella Schrad.

Lister (1925) 175.

on dead wood, Forest Hall, Knysna, *Duthie 130*.

Dictydium cancellatum Macbr.

Duthie (1917) 307 ; Lister (1925) 179 ; van der Byl (1922 d) 282.

on dead wood and moss, Knysna and Stellenbosch, *Duthie* 25 ; Kentani, *Pegler* 2416, 11239 ; Potchefstroom, *Goossens*, 27312, 27313 ; near Wonderboom, *Doidge & Bottomley* 28736.

TUBULINACEAE.

Tubifera ferruginosa Gmel.

Duthie (1918) 458 ; Lister (1925) 187.

Tubulina cylindrica DC., Lloyd (1917 a) L. 65 : 4.

on dead wood, Palm Grove, Victoria Falls ; without locality, *Duthie 160*.

RETICULARIACEAE.

Dictydiaethalium plumbeum Rost.

Duthie (1917) 307 ; Lister (1925) 191 ; van der Byl (1922 d) 282.

on dead wood and twigs, Rain Forest, Victoria Falls, *Duthie* 39 ; Stellenbosch, *Duthie 53*.

Reticularia Lycoperdon Bull.

Duthie (1917) 307 ; Lister (1925) 195 ; van der Byl (1922 d) 282.

on dead coniferous wood, Knysna, *Duthie 19*; Stellenbosch, *Duthie 34*; Kirstenbosch. *Duthie ;* Claremont, *Duthie 26* ; on dead wood, in poplar bush, Potchefstroom, *Goossen*, 27326 ; on dead wood, University Grounds, Rondebosch, *J. Acocks*, (E. L. Stephens 537),

LYCOGALACEAE.

Lycogala epidendrum Fr.

Kalchbrenner (1882 a) 143 ; Sacc. Syll. Fung. VII : 335 ; Massee (1892 a) 122 ; Duthie (1917) 308 ; van der Byl (1922 d) 282 ; Lister (1925) 199.

on dead wood, Somerset East, *MacOwan 1191* (S.A.M. 33325) ; Knysna and Stellenbosch, *Duthie ;* Rondebosch, *E. L. Stephens*, 26848 : University Grounds, Rondebosch, *M. A. Pocock*, (E. L. Stephens 385) ; Pretoria, *Fouché*, 15507 ; Potchefstroom, *Gunn*, 30514 ; Town Bush Valley, *Rump 51*, 27653.

Lycogala flavo-fuscum Rost.

Duthie (1918) 458 ; van der Byl (1922 d) 282 ; Lister (1925) 198.

on dead wood, Stellenbosch, *Duthie 100, 133* ; Stikland, *J. Acocks*, (E. L. Stephens 535).

Lycogala rufo-cinnamomeum Mass.

Massee (1892 a) 125 ; Lister (1925) 260.

on wood, South Africa. (Fide Lister, l.c., this a fungus.)

TRICHIACEAE.

Hemitrichia clavata Rost.

Duthie (1917) 308 ; Lister (1894) 177, (1925) 221.

Hemiarcyria clavata Rost., Kalchbrenner (1882 a) 143 ; Medley Wood (1898) 17 ; Sacc. Syll. Fung. VII : 447.

on dead wood, Somerset East, *MacOwan 1128, 1172*; Knysna and Clanwilliam, *Duthie*; Hogsback, *K. M. Putterill*, 30807; Pretoria, *Bottomley*, 11536; in poplar bush, Potchefstroom, *Goossens*, (Duthie 186) 27309, 27315: De Beers Rust, *Doidge*, 30681; Kaapmuiden, *H. A. Wager*, 7728; Natal, *Medley Wood 529*, 10402, Kew; Belvidere, Knysna, *Duthie 9 a*; Flynn's Bridge, Knysna, *Duthie 9*.

Hemitrichia Serpula Rost.

Lister (1925) 224, 225; Duthie (1917) 308.

Arcyria Serpula Mass., Cheesman (1909) 412.

on dead wood, Boschberg, *MacOwan 1168*, (S.A.M. 33332); Victoria Falls, *Cheesman* and *Duthie*; Brenton, *Duthie 17*; East London, *Cheesman*; Deepwalls, *Bottomley*, 30773; Winters Kloof, *Doidge*, 1848; Xumeni Forest, *Morgan & Doidge*, 30266; in poplar bush, Potchefstroom, *Goossens*, 27324: Inchanga, in bush, *Akerman* (Duthie); Nottingham Road, *v. d. Byl 548*, 31810.

Hemitrichia Vesparium Macbr.

Lister (1925) 218.

on dead wood in poplar bush, Potchefstroom, *Goossens*, 27306.

Trichia affinis de Bary

Duthie (1918) 458; Lister (1925) 205.

on decayed wood and moss, in poplar bush, Potchefstroom, *Goossens*, 27316; Xumeni Forest, *Morgan & Doidge*, 30259; on pine needles, Papegaaisberg, *Duthie 141*, Forest Hall, Knysna, *Duthie 30*.

Trichia Botrytis Pers.

Duthie (1917) 308.

Trichia fragilis Rost., Massee (1892 a) 176; Sacc. Syll. Fung. VII: 440.

on dead wood, Boschberg, *MacOwan 1169* (S.A.M. 33331).

Trichia favoginea Pers.

on **Eucalyptus globulus** Lab., dead wood, Keiskama Hoek, *v. d. Byl*, 11537.

Trichia persimilis Karst.

Duthie (1917) 308; Lister (1925) 205.

Trichia Balfourii Massee (1892 a) 186; Sacc. Syll. Fung. X: 95.

on dead wood and leaves, Cape, Kew; Xumeni Forest, *Morgan & Doidge*, 28908; Forest Hall, Knysna, *Duthie 61, 143*; Belvidere, Knysna, *Duthie 3, 134*.

Trichia scabra Rost.

Kalchbrenner (1882 a) 143; Duthie (1917) 308; Lister (1925) 206.

on dead wood and leaves, Somerset East, *MacOwan*, Kew.

Trichia varia Pers.

Lister (1925) 207.

Trichia turbinata Sow., Bottomley, (1916) 425.

on decaying wood, Boschberg, *MacOwan 1128*, 20836, (S.A.M. 33334); Natal, *Medley Wood 463*, 10640; in woods near Newlands, *E. L. Stephens*, (Duthie 180) and *Sydney Wanton* (E. L. Stephens 375).

ARCYRIACEAE.

Arcyria cinerea Pers.

Kalchbrenner (1882 a) 143; Massee (1892 a) 152; Sacc. Syll. Fung. VII: 427; (1917) 309; van der Byl (1922 d) 283; Lister (1925) 231.

on dead wood, Somerset East *MacOwan 1049*; Cape, Kew: Hogsback, *K. M. Putterill*, 30813; Town Bush, *Rump*, 27530; in poplar bush, Potchefstroom, *Goossens*, 27307: De Beers Rust, *K. M. Putterill*, 30688: Stellenbosch, *Duthie*; Knysna, *Duthie 92*; Forest Hall, Knysna, *Duthie 79*; Jonkershoek, *Duthie 104*.

Arcyria denudata Wettstein

Duthie (1917) 309; Lister (1925) 235; van der Byl (1922 d) 283; Simpson & Talbot (1946) 132.

Arcyria punicea Pers., Cooke (1879 b) 70: Kalchbrenner (1882 a) 143: Massee (1892 a) 143; Sacc. Syll. Fung. VII: 426.

on **Euphorbia** sp., dead plant, Blaauwkrantz Kloof, *Cruden*, 14246.

Olea sp., dead stumps, Qudeni Forest, *Simpson & Talbot*, 34932.

Pinus sp., dead log, Meintjies Kop, *Punt*, 14526.

on dead wood and bark, Inanda, *Medley Wood 183, 322*, 10200, Kew: Boschberg, *MacOwan 1127*, (S.A.M. 33329) 20923, Kew: in poplar bush, Potchefstroom *Goossens*, 27304, 27305: De Beers Rust, *K. M. Putterill*, 30677: and *Doidge* 30678; Town Bush, Rump *158*, 27779; Hogsback, *K. M. Putterill*, 30806; Jonkershoek, *Duthie 98, 103*; Brenton, Knysna, *Duthie 88, 89*: Belvidere, Knysna, *Duthie 77, 165*: Newlands Woods, *Sydney Manton* (E. L. Stephens 200); Otto's Bluff, *Rump*, 33752.

Arcyria incarnata Pers.

Duthie (1918) 458; Lister (1925) 237.

on dead wood, Kirstenbosch, *Duthie 54*.

Arcyria insignis Kalchbr. & Cooke

Kalchbrenner (1882 a) 143; Sacc. Syll. Fung. VII: 432; Lister (1894) 188, (1925) 236; Massee (1892 a) 148; Duthie (1917) 309.

on dead wood, Natal, *Medley Wood 49*, Kew: Somerset East, *MacOwan*, Kew: Brenton, Knysna, *Duthie 32*.

Arcyria nutans Grev.

Duthie (1917) 309; van der Byl (1922 d) 283; Lister (1925) 239.

on dead wood, Forest Hall, Knysna, *Duthie 8*; Newlands Woods, *E. L. Stephens 380, 536*.

Arcyria Oerstedtii Rost.

Lister (1925) 239; van der Byl (1922 d) 283, (1929 b) 101.

on dead wood, Brenton, Knysna, *Duthie 90*; on soil, Stellenbosch, *Duthie 28*.

Arcyria pomiformis Rost.

Kalchbrenner (1882 a) 143; Duthie (1917) 309; Lister (1925) 233.

on dead wood, Somerset East, *MacOwan*; Knysna, *Duthie 40*.

Perichaena corticalis Rost.

Duthie (1917) 310; Lister (1925) 246.

Perichaena populina Fr., Montagne (1847) 176.

on dead wood and bark, Buffelsrivier, *Drège*: Clanwilliam, *Duthie*; Knysna, *Duthie 164*; Stellenbosch, *Duthie 45*.

Perichaena depressa Lib.

Torrend (1905) 217; Duthie (1917) 310; Lister (1925) 244.

on dead wood and bark, Moçambique, Brit. Mus.; Knysna, *Duthie 84*: Moçambique (Torrend).

PHYCOMYCETES

CHYTRIDIALES.

PLASMODIOPHORACEAE.

Plasmodiophora Brassicae Woron.

Pole Evans (1913) 93 : van der Byl (1922 d) 282 ; Verwoerd (1929 b) 9, (1931 a) 298 ; Doidge & Bottomley (1931) 15, 32, 59, 64 ; Nel (1942) 9 ; Anon. (1935) 82 ; Karling (1942) 93, 127.

on **Brassica oleracea** Linn., Stellenbosch, *v. d. Byl*, 18094, and *Verwoerd ;* Bellville, *Bowman*, 28258 ; Kruispad and Brackenfel, *Brink ;* Bottelary and Kuils Rivier, *v. d. Byl ;* Wellington, *v. d. Byl 2431*, and *Verwoerd*, (Stell. 311) ; Maitland, Paarl and Cape Flats, *Verwoerd ;* Bloemfontein, *Verwoerd ;* Alberton, *Mendes*, 33918.

Brassica oleracea var. **acephala** DC., Wellington, *v. d. Byl.*

Brassica oleracea var. **botrytis** Linn., Brackenfel, *v. d. Byl*, 18064.

Stellenbosch, Dieprivier, Wellington and Kuilsrivier, *Verwoerd.*

Brassica oleracea var. **gemmifera** Zenk., Wynberg, *Verwoerd.*

Brassica rapa Linn., intercepted in the United States on material from South Africa.

Iberis sp., Durban, *Wager*, 34160.

Sorodiscus radicicolus Ivimey Cook

Ivimey Cook (1931) 321 ; Karling (1942) 48.

on **Gynandropsis pentaphylla** DC., Greylingspos, *Doidge*, 27351 Type, and *F. Turner*, 23206 ; The Hangingshaw, Rustenburg, *F. Turner*, 23381 ; Koster, *Shorten*, 23217.

Spongospora subterranea (Wallr.) Lagerh.

Doidge & Bottomley (1931) 52 ; Hopkins (1938 a) 98, (1939 a) 43 ; Nel (1942) 9 ; Karling (1942) 57, 135.

on **Solanum tuberosum** Linn., tubers and stems, Tweespruit, *Nelson*, 18024 : Cato Ridge, *Allsop*, 24956 ; Hamberg, *F. Turner*, 27356 : Eloff. *Caplan & Blieden*, 28722 : Salisbury (Rh. 1828, 3239) ; Chipinga (Rh. 3011) ; Somabula (Rh. 3221) ; without locality, *v. d. Byl 463.*

WORONINACEAE.

Olpidiopsis Ricciae du Pless.

du Plessis (1933 a) 761 ; Nel (1942) 8.

on **Riccia** sp., Stellenbosch, *Duthie 5006, 5007*, (Stell. 603, v. d. Byl 2691) Knysna, *Duthie 5118.*

SYNCHYTRIACEAE.

Synchytrium Cotulae du Pless.

du Plessis (1933 e).

on **Cotula coronopifolia** Linn., Stellenbosch, *Duthie*, (Stell. 862).

Synchytrium Dolichi (Cooke) Gaümann

van der Byl (1928 a) 183 ; Nel (1942) 10.

Aecidium Dolichi Cooke, (1882 a) 127.

Aecidium Rhynchosiae Cooke, (1882 a) 127.

Woroninella Dolichi (Cooke) Syd., van der Byl (1925 b) 191 ; Hopkins (1938 a) 98 (1939 a) 48.

on **Dolichos biflorus** Linn., Inanda, *Medley Wood 640*, 340, 840, 10290.
Dolichos sp., Inanda, *Medley Wood 40*, 10291.
Desmodium scalpe (Comm.) DC., Inanda, *Medley Wood 613*, 10301, 11200.
Glycine javanica Linn., Durban, *v. d. Byl 76*.
Rhynchosia spp., Maritzburg, *Pole Evans*, 1432 ; Barberton, *Pole Evans*, 1161 ; Natal, *Medley Wood 557*, 11114, Kew.
Vigna luteola (Jacq.) Benth., Goukama R., *Duthie* (v. d. Byl 1703).
Vigna triloba (Thunb.) Walp., Shamva (Rh. 2595).

Synchytrium endobioticum (Schilb.) Perc.

Doidge (1926) 161 ; Doidge & Bottomley (1931) 53.
on **Solanum tuberosum** Linn., Castle Howard, *Woodrow*, 15439 ; Witpoortje and Hamberg, *Doidge ;* Pretoria (artificial infection) 15511 ; isolated outbreaks of this disease in 1922 and 1925 were dealt with by quarantine measures ; last occurrence in 1926.

CLADOCHYTRIACEAE.

Physoderma Maydis Miyabe

Physoderma Zeae-maydis Shaw, Hopkins (1938 a) 98, (1939 a) 50.
on **Zea Mays** Linn., Salisbury, (Rh. 1295, 1310).

BLASTOCLADIALES.

BLASTOCLADIACEAE.

Allomyces arbusculus Butler

Wolf (1946) 167 ; Sparrow (1943) 422–3.
isolated from soil samples, from bank of Kat River, about a foot above normal water level, but covered during flood periods, near Balfour, Cape, *Moore ;* from roadside pool, overgrown with bulrushes, on the Katberg road near Balfour, Cape, *Moore*.

SAPROLEGNIALES.

SAPROLEGNIACEAE.

Saprolegnia ferax Auct.

on **Cuprinus auratus** (gold fish) Union Buildings, Pretoria, *Goldblatt*, 17280.
Ranidae undet., (frog) without locality, 17290.

PERONOSPORALES.

ALBUGINACEAE.

Cystopus austro-africanus (Syd.) Sacc. & Trott.

Sacc. Syll. Fung. XXIV (1926) 33.
Albugo austro-africanus Syd., H. & P. Sydow (1912 c) 437.
Cystopus austro-africanus (Syd.) Wakefield (1927) 244.
on **Aizoon rigidum** Linn., Humewood, *Doidge*, 1234, Kew.

Cystopus Bliti de Bary

Sacc. Syll. Fung. VII : 236 ; Wakefield (1927) 246 ; Hopkins (1939 a) 4.
Cystopus Amaranthi Berk. (?) Kalchbrenner (1882 b) 27.

on **Achyranthes aspera** Linn., Garstfontein, *Pienaar*, 1205, 1310, Kew, and *Doidge*, 1477, Kew; Duivelskloof, *Doidge*, 20334, Kew.
Achyranthes sp., Salisbury, *Hopkins*.
Amaranthus angustifolius Lam., Somerset East, *MacOwan 1320*, 20808.
Cyathula globulifera Moq., Somerset East, *MacOwan 1313*, 21990 (de Thuem. Myc. Univ. 1512), also ex Herb. Kalchbr. Kew; Garstfontein, *Pienaar*, 1268, Kew.

Cystopus candidus (Pers.) de Bary

Kalchbrenner (1882 b) 27; Sacc. Syll. Fung. VII: 234; Wakefield (1927) 243; Doidge & Bottomley (1931) 30, 54, 64; Verwoerd (1931 a) 298.
Albugo candida (Pers.) O. Kuntze, van der Byl (1922 d) 283; Nel (1942) 8; Cardoso (1945) 155.
Albugo candida f. *Heliophilae* Hennings (1898) 293.
on **Armoracia rusticana** Gaertn., Constantia, *Lounsbury*, 718: Cape Town, *Mally*, 11822 Bloemfontein, *Verwoerd*; Stellenbosch, *v. d. Byl*, and *Verwoerd* (Stell. 316); Helderberg, *v. d. Byl 101*.
Brassica Napus Linn., Natal, *Medley Wood 459*, 10453, Kew: Somerset East, *MacOwan 1248*, 20914 (S.A.M. 33353); Kilgobbin, *Fannin*, (v. d. Byl 577) 31828;
Brassica nigra Koch, Equeefa, *Fuller*, 1537, Kew.
Brassica rapa Linn., Pretoria, *Bottomley*, 20400, Kew; Stella Bush, *Wager*, 33194; Irene, *Pole Evans*, 34352.
Brassica spp., Port Elizabeth, *Doidge*, 1232; Isipingo, *v. d. Merwe*, 15509; Glen, *Shuttleworth*, 32659.
Cardamine africana Linn., Somerset East, *MacOwan 1199*, 21949 (de Thuem. Myc. Univ. 1314) Kew; Boschberg, *MacOwan 1287*, ex Herb. Kalchbr., Kew.
Heliophila Meyeri Sond., Van Rhynsdorp, *Schlechter*, Kew.
Heliophila sp., Cape Town, *Lounsbury*, 192, Kew; Tulbagh, *Duthie*, (v. d. Byl 2597, Stell. 500); Gordon's Bay, *du Plessis*, (Stell. 554).
Lepidium sp., Steynsberg, *Pole Evans*, 20623.
Raphanus sativus Linn., Pretoria, *Wager*, 21584: Stellenbosch, *v. d. Byl 879*; Constantia, *Verwoerd*, (Stell. 453).
Sisymbrium gariepinum Burch., Bloemfontein, *Potts*, 9756, Kew.
Sisymbrium sp., Bloemfontein *Verwoerd*.

Cystopus cubicus (Strauss) de Bary

Wakefield (1927) 245; Doidge & Bottomley (1931) 11, 56; Hopkins (1938 a) 99, (1939 a) 20.
Albugo Tragopogonis S. P. Gray, Nel (1942) 8.
as *Albugo cubicus* Nel (1942) 8.
on **Cenia turbinata** Per., Somerset West, *du Plessis* (Stell. 831).
Cineraria sp., Stellenbosch, *v. d. Byl 2619* and *Verwoerd* (v. d. Byl 1256).
Dimorphotheca sp., Pretoria, *Greenstein*, 30665, *du Toit*, 33747, and *v. d. Merwe*, 33897.
Gerbera Jamesoni Bolus, Barberton, *Pole Evans*, 1159, Kew; Pretoria, *Pole Evans*, 7803, Kew, *Bottomley*, 18074, 33452, 32655, *Doidge*, 20366 and *Hean*, 32743; Johannesburg, *Kelly*, 10020, Kew: Empangeni, *Krietzen*, 25493; Salisbury, *Hopkins*, 27353; Salisbury (Rh. 2533, 2543, 2611, 3003, 3029, 3128); Durban, *v. d. Byl 1150*; Chase Valley, *Wager*, 33285.
Gerbera plantaginea Harv., Garstfontein, *Pienaar*, 1986, Kew and *Erasmus* 2081, Kew.
Senecio angustifolia Willd., Pretoria, *Pole Evans*, 11325, Kew.
Senecio inaequidens DC., Maritzburg, *Pole Evans*, 1428, Kew; Mooi River, *Mogg*, 12242.
Senecio orbicularis Sond., Pretoria, *Bottomley*, 9744, Kew and 18070; Irene, *Pole Evans*, 20365, Kew.

Senecio pellucidus DC. var. **ruderalis** Harv., Allerton, *Steyn*, 30898.
Senecio pinnulatus Thunb., Hopefield, *v. d. Byl 1290* (Stell. 145).
Senecio sp., Stellenbosch, *v. d. Byl 2619* and *Verwoerd* (v. d. Byl 1256); Hopefield, *v. d. Byl* (Stell. 884).

Cystopus Evansii (Syd.) Sacc. & Trott.

Sacc. Syll. Fung. XXIV (1926) 34.
Albugo Evansii Syd., H. & P. Sydow (1912 c) 437; Nel (1942) 8.
Cystopus Evansii (Syd.) Wakefield (1927) 246; Verwoerd (1931 a) 298; Doidge & Bottomley (1931) 41.

on **Nemesia strumosa** Benth. var. **Suttonii** Hort., Bloemfontein, *Verwoerd*.
Nemesia spp., Hoogfontein, *v. d. Merwe*, 1472, Kew, Type; Port Alfred, *Graham*, 23469; Darling, *Duckitt*, *v. d. Byl 2585* and *Verwoerd* (Stell. 414); Stellenbosch, *Sauer* (Stell. 830).

Cystopus Ipomoeae-panduranae (Schw.) Stev. & Swing.
Wakefield (1927) 245.

on **Convolvulus ulosepalus** Hall.f., Buffelspoort, *Doidge*, 33139.
Ipomoea cardiosepala Hochst., Inanda, *Medley Wood 225*, Kew. *Medley Wood 467*, 847, 10452; Barberton, *Wager*, 26153.
Ipomoea ficifolia Lindl., Tzaneen, *Doidge*, 20319, Kew.
Ipomoea obscura Ker., Tzaneen, *Doidge*, 20338, Kew.
Ipomoea sp., Barberton, *Pole Evans* 1160, Kew.

Cystopus Portulacae de Bary

Kalchbrenner (1882 b) 27; Sacc. Syll. Fung. VII: 235; Wakefield (1927) 244; Hopkins (1938 a) 99, (1939 a) 35.

on **Portulaca oleracea** Linn., Somerset East, *MacOwan 1303*, (de Thuem. Myc. Univ. 252 b, Rabenh.-Wint. Fung. Eur. 3775) 20827, Kew; Skinner's Court, 101, Kew; Pretoria, *Burtt Davy*, 148, 157, Kew. *Pole Evans*, 18083, *Hean*, 29948, *Doidge*, 29949; Lyttelton Junction, *Erasmus*, 1515, Kew; Garstfontein, *Pienaar*, 2145, Kew; Salisbury, *Hopkins*.

Cystopus quadratus Kalchbr. & Cooke.

Kalchbrenner & Cooke (1880) 22; Wakefield (1927) 246; Sacc. Syll. Fung. VII: 237.

on **Hypoestes verticillaris** R. Br., Cape, *MacOwan 1314*, Kew, Type; Garstfontein, *Pienaar* 1425, Kew.

Cystopus Schlechteri Syd.

P. Sydow (1899 d) (142); Sacc. Syll. Fung. XVI: 396.

on **Salsola aphylia** Linn. f., eastern region of South Africa, *Schlechter*.

Cystopus Tragopogonis (Pers.) Schroet.

Verwoerd (1929 b) 25; van der Byl (1929 b) 102.

on **Helianthus annuus** Linn., Durban, *Wager*, 32417; Buffelspoort, *Redpath*, 34076; Hatfield, Pretoria, *Anderssen*, 34078; Naboomspruit, 34050, 34166.
Scorzonera hispanica Linn., Stellenbosch, *Verwoerd*; Paarl, *Verwoerd*.; Stellenbosch, *Joubert* (v.d. Byl 2063).

PYTHIACEAE.

Phytophthora cactorum (Leb. & Cohn) Schroet.

Mes (1934) 286 ; Wijers (1937) 211 ; Wager (1941 a) 24, (1942 b) 538, 540.

Phytophthora citricola Sawada, Doidge & v. d. Plank (1926) 23.

isolated from :

Antirrhinum majus Linn., Pretoria, *Mes, Wager 185*, 32599, *Verdoorn*, 29725 ; Durban, *Wager 536.*

Centaurea moschata Linn., Pretoria, *Wager.*

Citrus maxima Merr., Fish River, *Doidge* (Wager 292) 32600.

Dianthus caryophyllus Linn., Pretoria, *Wijers.*

Verbena hybrida Voss., Pretoria, *Wijers.*

Phytophthora cinnamomi Rands

Wager (1941 a) 16, (1942 b) 538, (1942 a) 521.

as *Phytophthora cambivora* Petri, Doidge & Bottomley (1931) 10 ; Wager (1931)32.

isolated from :

Persea americana Mill., Nelspruit, *Doidge* (Wager 385) 32601 ; Buffelspoort, *Wager 501 d;* Phoenix, *Wager 509, 591.*

Phytophthora citrophthora (R. E. & E. H. Sm.) Leon.

Wager (1931) 35, (1941) 23, (1942 b) 538, 540 ; Hector & Loest (1937) 643, Doidge & v. d. Plank (1936) 23 ; Bates (1937) 176 ; Cardoso (1937) 151, (1938) 74, (1939) 44 (1945) 151, 152, 153 ; Hopkins (1938 a) 99, (1939 a) 11; (1943) 182.

Pythiacystis citrophthora R. E. & E. H. Sm., Doidge (1925) 499 ; Cardoso (1935) 186 ; Doidge & Bottomley (1931) 43, 45.

isolated from :

Citrus Limonia Osbeck, Mazoe, *Bates :* Muden, *Wager 546 ;* Umbeluzi, *Cardoso ;* Moamba, Marracuene, Manhiça, *Cardoso.*

Citrus maxima Merr., Patentie, *Wager 190*, 32602 ; Mazoe and Rusapi, *Hopkins ;* Nkwaleni, *Wager.*

Citrus nobilis Lour. var. **deliciosa** Sw., Umbeluzi, Moamba, Marracuene, *Cardoso ;* Mposa, Zululand ; Lourenço Marques, *Nascimento.*

Citrus sinensis Osbeck, Marico Distr. and Northern Transvaal, *Doidge ;* Mazoe, *Bates ;* Sul do Save, *Cardoso ;* Fort Beaufort, *Wager*, 32603 ; Sundays River, *Loest ;* eastern Transvaal, *Loest ;* Thabazimbi, *Jourdan ;* Umbelusi, Moamba and Marracuene, *Cardoso ;* Lourenço Marques, *Guimarães.*

Citrus spp., Mayfern, *Loest*, 33295 ; soil in orange grove, Mazoe, *Bates 321.*

Phytophthora cryptogea Pethybr. & Laff.

Wager (1941 a) 28.

isolated from :

Godetia sp., Pretoria, *Bottomley* (Wager 219) 32604.

Chrysanthemum cinerarifolium Viz., Mazoe, *Bates 363* (Wager 515) ; *Hopkins* (Rh. 6229), ? host as *Pyrethrum* sp.

Phytophthora infestans (Mont.) de Bary

Doidge & Bottomley (1931) 52, 64 ; Verwoerd (1929 b) 23 ; Wager (1941 a) 20.

on **Solanum tuberosum** Linn., Pretoria, *Battison*, 311 ; Eikenhof, *Brink*, 760 ; Houtboschdorp, *Scott*, 28721 ; Haenertsburg, *Lake*, 28268 ; Mokeetsi, *Dixon*, 29885 ; Nottingham Road, *Clouston*, 27383 ; Fort Beaufort, *Wager ;* Stellenbosch, *Verwoerd ;* Paarl,

Verwoerd; Plettenberg Bay, *Verwoerd;* Camperdown, *Gavin*, 31988; Knysna, *Mostert*, (Stell. 804); Wynberg, (Stell. 1052); East London, *Doidge*, 10905; Sarnia. Mt. Edgecombe, Phoenix, *Wager;* Donnybrook, *Hains;* Rosetta, *Ratsey;* Mooi River, *Pickering & Tatham.*

Lycopersicum esculentum Mill., Natal coast, *Doidge & Bottomley* and *Storey.*

Phytophthora parasitica Dast.

Wager (1935 a) 236, (1941 a) 21; Hopkins (1931 d) 49, (1938 a) 99, (1939 a) 5, 10, 21, 24, 27, 40, (1939 b) 40, (1943) 185, 186.

Phytophthora parasitica var. *Rhei* Godfrey, Doidge & Bottomley (1931) 55; Wager (1931) 35, 38.

isolated from:

Anthirrhinum majus Linn., Salisbury, (Rh. 1399, 2615).
Clarkia elegans Dougl., Salisbury (Rh. 2759, 3391).
Cotyledon sp., Pretoria, *Wager;* Salisbury (Rh. 1669).
Delphinium cultorum Voss, Pretoria, *Doidge*, 30783.
Godetia sp., Salisbury (Rh. 2698).
Hibiscus Sabdariffa Dast., Umtali, *Hopkins.*
Lilium philippense Baker, Salisbury (Rh. 3667).
Lycopersicum esculentum Mill., Nelspruit, *Wager 285*, 32606; Mazoe, *Bates, 321 b*; Durban, *Wager 587, 590.*
Nicotiana Tabacum Linn., Salisbury (Rh. 1538); Sabi Valley (Rh. 1473).
Rheum Rhaponticum Linn., Uitenhage; Leeuwdoorns; Potchefstroom; Nelspruit, *Wager 133*, 32605; Humansdorp; Kat River; Salisbury (Rh. 1458); Syringa, (Rh. 2323).
Trichocaulon sp., Pretoria, *Wager.*
isolated from soil under indigenous trees, Mazoe, *Bates 331.*

Phytophthora Syringae Kleb.

Wager (1941 a) 30, (1942) 541.

Phytophthora hibernalis Carne, Doidge & v. d. Plank (1936) 23.

isolated from:

Citrus sinensis Osbeck, Fish River, *Doidge* (comm. *V. A. Putterill*).

Pythium acanthicum Drechsl,

Wager (1941 a) 13.

isolated from:

Dahlia pinnata, Cav., Pretoria, *Wager.*
Hibiscus sp., Cavendish, *Wager 524.*
Pisum sativum Linn., Nelspruit, *Wager 222*, 32607.

Pythium aphanidermatum (Eds.) Fitz.

Doidge & Bottomley (1931) 46, 53; Wager (1931 b) 436, (1932 c) 465, (1933 b) 248 (1941 a) 5; Hopkins (1938 a) 99, (1939 a) 27, (1939 b) 103.

isolated from:

Amaranthus tricolor Linn., Umhlanga Rocks, *Wager 570.*
Carica Papaya Linn., eastern and northern Transvaal, Natal and Cape, *Wager 130*, 32608.
Celosia argentea Linn., Umhlanga Rocks, *Wager 569.*
Citrus sp., Muden, *Wager 538.*
Cucurbita Pepo Linn., Nelspruit, *Wager.*

Lycopersicum esculentum Mill., Nelspruit, *Wager;* Windhoek, *Wager;* Durban, *Wager 572, 578.*
Nicotiana Tabacum Linn., Rustenburg, *Wager;* Balfour, *Wager;* Banket, (Rh. 3688).
Pteridium aquilinum (L.) Kuhn, White River, *Wager.*
Sechium edule, Sw., Nelspruit, *Wager.*
Solanum melongena L. var. **esculentum** Nees, Nelspruit, *Wager.*
Solanum tuberosum L., Pretoria *Wager 140,* 32609.

Pythium Debaryanum Hesse.
Hopkins (1932) 463, (1938 a) 99, (1939 a) 17, 24, 28; Wager (1941 a) 17.
Pythium Fabae Cheney, Wager (1941 a) 18.
isolated from:
Antirrhinum majus Linn., Salisbury, *Hopkins.*
Coleus sp., S. Rhodesia, *Hopkins.*
Delphinium cultorum Voss, Salisbury (Rh. 1994).
Lactuca sativa Linn., Salisbury (Rh. 2153).
? **Musa paradisiaca** L. var. **sapientium** Kunze, Cavendish, *Wager 511.*
Nicotiana Tabacum Linn., Salisbury, (Rh. 1512, 1806); M'Soneddi (Rh. 1910).
Persea americana Mill., Buffelspoort, *Wager 506.*
Stapelia sp., Pretoria, *Wager 224,* 32610.

Var. **Pelargonii** Braun.
Wager (1941 a) 18.
isolated from:
Phaseolus vulgaris Linn., Pretoria, *Wager 247,* 32611.

Pythium irregulare Buisman.
Wager (1931) 5, (1941 a) 7, (1942 b) 538; Doidge & van der Plank (1936) 23; St. John-Brooks (1936) 107.
isolated from:
Antirrhinum majus Linn., Durban, *Wager 536.*
Carica Papaya Linn., Louis Trichardt, *Wager 155,* 32613.
Citrus sinensis Osbeck, Kosterfontein, *F. Turner* (Wager 90) 32612.

Pythium myriotylum Drechsl.
Wager (1932 b) 435, (1941 a) 10.
isolated from:
Carica Papaya Linn., Nelspruit, *Wager 200,* 32614.

Pythium oligandrum Drechsl.
Wager (1941 a) 15.
as *Pythium cf. artotrogus,* Wager (1931) 39.
isolated from:
Antirrhinum majus Linn., Pretoria, *Wager 103,* 32615.
Brassica oleracea Linn., Pretoria, *Wager 214,* 32616.
Cucurbita Pepo Linn., Pretoria, *Wager.*
Papaver Rhoeas Linn., Pretoria, *Wager.*

Pythium spinosum Sawada
Wager (1931) 5, (1932 b) 435, (1941 a) 12.
isolated from:
Antirrhinum majus Linn., Durban, *Wager 534.*
Carica Papaya Linn., Louis Trichardt, *Wager 156,* 32618.
Phaseolus vulgaris Linn., Cavendish, *Wager 529.*

Pythium splendens Braun

Wager (1931 16, (1932 b) 435, (1941 a) 11.

isolated from :

Carica Papaya Linn., Nelspruit, *Wager 151*, 32617.
Hibiscus sp., Phoenix, *Wager 525*.
Lycopersicum esculentum Mill., Cavendish, *Wager 528* : Durban, *Wager 583*.
Zinnia elegans Jacq., Durban, *Wager 571*.

Pythium ultimum Trow

Doidge & Bottomley (1931) 30, 46, 60 : Wager (1931) 10, 16, 34, (1932 b) 436, (1941 a) 4 : Hopkins (1938 a) 99, (1939 a) 10, 16, 27, 34.

as *Pythium* sp., Hopkins (1932) 465.

isolated from :

Althea rosea Cav., Salisbury, *Hopkins*.
Aloe variegata Linn., Pretoria, *Wager*.
Arachis hypogea Linn., Settlers, *Wager*.
Brassica oleracea Linn., Port Elizabeth, *Wager ;* Salisbury, *Hopkins*.
Callistephus chinensis Nees, Pretoria, *Wager 170*, 32620.
Carica Papaya Linn., eastern and northern Transvaal, Natal and Cape, *Wager 150*, 32619 ; Salisbury and Hartley (Rh. 2273).
Citrus sinensis Osbeck, Fort Beaufort, *Wager*.
Clarkia elegans Dougl., Salisbury, (Rh. 1353).
Coleus sp., Salisbury (Rh. 1652).
Cupressus sp., Mbesa (Rh. 1435).
Dahlia pinnata Cav., Pretoria, *Wager*.
Delosperma sp., Pretoria, *Wager*.
Delphinium cultorum Voss, Pretoria, *Wager*.
Dianthus plumarius Linn., Pretoria, *Wager*.
Dinteranthus microspermus Schantz, Pretoria, *Wager*.
Duvalia parviflora N.E.Br., Pretoria, *Wager*.
Fenestraria aurantiaca N.E.Br., Pretoria, *Wager*.
Gilia rubra Heller, Pretoria, *Wager*.
Hakea sp., Durban, *Wager 566*.
Ipomoea batatas Lam., Pretoria, *Wager*.
Lathyrus odoratus Linn., Pretoria, *Wager*.
Lycopersicum esculentum Mill., South-West Africa, *Wager :* Durban, *Wager 583*.
Mesembrianthemum sp., Pretoria, *Wager 281*, 32621.
Nicotiana Tabacum Linn., Rustenburg, *Wager* ; Salisbury (Rh. 3404).
Papaver nudicaule Linn., Pretoria, *Wager ;* Stellenbosch, *Dippenaar*.
Persea americana Mill., Buffelspoort, *Wager 503*.
Phaseolus vulgaris Linn., Pretoria, *Wager*.
Pinus Coulteri D. Don., Bulawayo (Rh. 2686).
Pinus radiata Don., Salisbury, *Hopkins*.
Pinus spp., Pretoria, *Wager ;* Salisbury (Rh. 2172).
Pisum sativum Linn., Nelspruit, *Wager*.
Rheum Rhaponticum Linn., Pretoria, *Wager*.
Solanum Melongena Linn., var. **esculentum** Nees., Durban, *Wager 589*.
Stapelia sp., Pretoria, *Wager*.
Striga lutea Lour., Pretoria, *Wager*.
Tavaresia sp., Pretoria, *Wager*.
Tropaeolum majus Linn., Pretoria, *Wager*.

Pythium vexans de Bary

Wager (1941 a) 8, (1942 a) 523.
isolated from :
Carica Papaya Linn., Louis Trichardt, *Wager 201*, 32622.
Limonium latifolium Kze., Pretoria, *Wager 227*, 32623.
Persea americana Mill., Buffelspoort, *Wager 501 b.*

Pythium sp.

McMartin (1937 b) 267, 253.
on **Saccharum officinarum** Linn., Natal coast, *McMartin.*

Pythium sp.

Moore (1926) 428.
on **Nicotiana Tabacum** Linn., seedlings, *Moore.*

PERONOSPORACEAE.

Peronoplasmopara cubensis (Berk. & Curt.) Clint.

Doidge & Bottomley (1931) 22.
Pseudoperonospora cubensis (Berk. & Curt.) Verwoerd & du Plessis (1931) 294; Wager (1935 a) 457.
on **Cucumis sativus** Linn., Mokeetsi, *Fry*, 25972 : Karino, *Domirle*, 24877 : Alkmaar. *Wager*, 26569 : Kaapmuiden, *Hulley*, 27580, *Phillips*, 23234 : Barberton, *Button*, 641 ; East London, *Slemert*, 17087.
Cucumis Melo Linn., Constantia, *Verwoerd* (Stell. 470) ; Villiersdorp, *Lotter* (Stell. 417) ; Wynberg, *Dippenaar.*
Citrullus vulgaris Schrad., South-western Cape, *Dippenaar.*

Peronospora destructor (Berk.) Casp.

Peronospora Schleideni Unger, Pole Evans (1911 b) 258,: Eyles (1926) 643 : Hopkins (1930) 528 ; Verwoerd (1929 b) 19, (1931 a) 298 ; Doidge & Bottomley (1931) 42 ; Nel (1942) 9.
on **Allium ascalonicum** Linn., Kentani, *Pegler 2391*, 9528.
Allium Cepa Linn., Zandvlakte, *Gellman*, 30841 ; Joubertina, *Reinecke*, 30839, 33330 ; Riversdale, *Verwoerd* (Stell. 469) : Bloemfontein, *Verwoerd :* Potchefstroom, *Pienaar*, 1912 ; Pretoria *F. de Villiers*, 5130, *Faure*, 11791, *Rickert*, 30842 and *van Rooyen*, 32205 ; Klip River, *v. Zyl*, 9193 ; Marabastad, *Maré*, 30840 : Bubi, *Eyles :* Stellenbosch, *Malan* (v. d. Byl 1302), *Verwoerd*, (Stell. 147) : Wonderboom, *Bottomley*, 33329 ; Joubertina, *Reinecke*, 33330 ; Fort Victoria, *Hopkins* (Rh. 6122).

Peronospora effusa (Grev.) Rabenh.

Nel (1942) 9.
on **Chenopodium ambrosioides** Linn., Bon Accord, *Mogg*, 32430 : Pyramids, *Mogg*, 32643.
Chenopodium foetidum Schrad., Potgietersrust, *Forster*, 28507.
Chenopodium murale Linn., Knysna, *du Plessis* (Stell. 591).
Chenopodium spp., Cana, *Hean*, 32144 ; Sandown, *Hean*, 32426 ; Hopefield, *v. d. Byl 1293.*
Spinacia oleracea Linn., Johannesburg, *Cohen*, 34213.

Peronospora Euphorbiae Fuck.

Verwoerd & du Plessis (1933) 227; Nel (1942) 9.
on **Euphorbia** sp., Piquetberg, *du Plessis* (Stell. 602, v. d. Byl 2689).

Peronospora Mesembryanthemi Verw.

Verwoerd (1924 a) 13; Doidge & Bottomley (1931) 38; Nel (1942) 9.
on **Mesembryanthemum** spp., Stellenbosch, Verwoerd (Stell. 104, v. d. Byl 1242) Type: Grahamstown, *Dyer*, 23383, 23631: Bathurst Rail, *Elliott*, 25481: Kloof, *McClean*, 26332.

Peronospora obovata Bon.

Verwoerd & du Plessis (1933) 228; Nel (1942) 9.
on **Spergula arvensis** Linn., Stellenbosch, *Verwoerd & du Plessis*, (Stell. 614), v. d. Byl 2688)

Peronospora Oxalidis Verw. & du Pless.

Verwoerd & du Plessis (1932) 314; Nel (1942) 9.
on **Oxalis cernua** Thunb., Stellenbosch, du Plessis (Stell. 547, v. d. Byl 2686) Type.
Oxalis sp., Elsenburg, *du Plessis*.

Peronospora parasitica (Pers.) Tul.

Verwoerd (1929 b) 24: Doidge & Bottomley (1931) 15, 54; Nel (1942) 9.
on **Brassica oleracea** Linn., Wellington, *Davies*, 27264; Grahamstown, *McClean*, 23807; Pretoria, *Bottomley*, 20352: Schagen, *Theron*, 26145: Estcourt, 24343: Krantzkloof, *Bell*, 8967: without locality, 460: Stellenbosch, *du Plessis* (Stell. 556, v. d. Byl 2685).
Brassica oleracea var. **acephala** DC., south-western Cape, *Dippenaar*.
Brassica rapa Linn., Kameeldrift, *v. Willigh*, 34323.
Raphanus Raphanistrum Linn., Somerset West, *du Plessis* (Stell. 801, v. d. Byl 2701).
Raphanus sativus Linn., Groot Drakenstein, *Turner*, 7350.

Peronospora Rumicis Corda

Verwoerd & du Plessis (1932) 413; Nel (1942) 9.
on **Polygonum aviculare** Linn., Stellenbosch, *du Plessis* (Stell. 546, v. d. Byl 2702).

Peronospora trifoliorum de Bary

Doidge & Bottomley (1931) 35, 57: Bottomley (1932) 21; Nel (1942) 9.
on **Glycine Max** Merr., Cedara, *Staples*, 17059.
Medicago sativa Linn., Grootfontein, 26083: Pretoria, *L. Turner*, 6935: Groenkloof, *Mell.*, 9190, *Doidge*, 18071: Welverdiend, *Burgers*, 15535: Cedara, *Staples*, 17059: Ixopo, *Hancock*, 15046: Kilgobbin, *Fannin*, (v. d. Byl 579) 31829: Stellenbosch, *du Plessis* (Stell. 585, v. d. Byl 2703).

Peronospora Viciae (Berk.) de Bary.

Doidge & Bottomley (1931) 47.
on **Pisum sativum** Linn., Ceres, 728; Cape Flats and Stellenbosch, *Dippenaar* (Stell. 860); Grahamstown, *Pringle*, 34235.

Plasmopara viticola (Berk. & Curt.) Berl. & de Toni.

Pole Evans (1907 a) 166, (1908 c) 213, (1908 e) 124: Lounsbury (1907) 330: Doidge & Bottomley (1931) 28: Hopkins (1930) 524, (1939 a) 48; Marloth (1913) 24; Cardoso (1939) 45, (1945) 155.

on **Parthenocissus quinquefolia** Planch., Grahamstown, *Dewar*, 286.
Vitis vinifera Linn., Grahamstown, *Dewar*, 237 ; Graaff Reinet, *Mally*. 1534 ; Somerset East, *Dewar*, 313 ; Fort Beaufort, *Pole Evans*, 297 ; Cape Town, 223 ; Umzimkulu, *MacIntyre*, 10132 ; Barberton, *Lounsbury*, 1276 ; Lourenço Marques, 24340 ; Umbeluzi, Xinavane, *Guimarães*, Shamva (Rh. 812).

Sclerospora Butleri Weston

Weston (1933) 592.
on **Eragrostis aspera** Nees, Bulaki, Nyasaland, *E. J. Butler* (Type in Farlow Herbarium ; ? **Eragrostis** sp., Pinetown.

Sclerospora graminicola (Sacc.) Schroet.

Wickens (1937) 690 ; Hopkins (1938 a) 100, (1939 a) 31 ; Doidge & Bottomley (1931) 35 ; Weston (1933) 587.
on **Pennisetum spicatum** Koern, Swallowfields (Rh. 3243).
Pennisetum typhoides Stapf & Hubb., Roodekop, *Clover*, 26691 : Immerpan, *Todd*, 28823 ; Letaba, *Curson*, 28861 ; Zomba, 8950 : without locality, *Curson*, 30464 ; Makwapala, near Zomba, *E. J. Butler*.
Setaria verticillata Beauv., Groenkloof, *Mackay*, 20347.

Sclerospora indica Butler

as *Sclerospora Maydis* (Rac.) Butler, Doidge & Bottomley (1931) 36.
on **Zea Mays** Linn., Naboomspruit, *McKay*, 20385 ; Pienaars River, *McKay*, 20425 ; North coast of Natal, 32497.

Sclerospora Sorghi (Kulk) Weston & Uppal

Hopkins (1938 a) 100, (1939 a) 44.
sub *Sclerospora graminicola* (Sacc.) Schroet., Doidge & Bottomley (1931) 31, 32, 59.
on **Sorghum caffrorum** Beauv., Pretoria, *du Preez*, 25910.
Sorghum Durra Stapf, Pretoria, *F. du Toit & Wager*, 25903.
Sorghum sudanense Stapf, Ntababane, 15506, 32496 ; Beestekraal, *Anderssen* 27754 ; Salisbury (Rh. 1950).
Sorghum verticilliflorum Stapf, Pretoria, *Lundie*, 15419 ; Moorddrift, *Kitchener*, 11876.

MUCORALES.

MUCORACEAE.

Circinella Sydowii Lendner

Lendner (1913) 29 ; Sacc. Syll. Fung. XXIV : 6 ; Stevenson & Rands (1938) 261.
in sugar solution, in gold mine, Johannesburg.

Mucor exitiosus Mass.

Massee (1901 a) 94, (1908 b) 197 : Pole Evans (1907 a) 170 ; Anon. (1901) 850 ; Sacc. Syll. Fung. XVII : 495.
isolated from :
Nomadacris septemfasciata Serv., South Africa.

Mucor hiemalis Wehm.

on artificial medium, Cedara, *Ripley*.

Mucor mucedo Linn.

Thunberg (1800) 183, (1923) 756.
on plants, bread, etc., Cape, *Thunberg.*

Mucor racemosus Fres.

McAlpine (1899) 1213, (1900) 184.
? as *Mucor* sp., Howard (1902) 466, 469 ; McMartin (1935 a) 23.
on **Nomadacris septemfasciata** Serv., dead locusts, from ? Cape Town (more probably Natal). Natal coast, *McMartin.*
isolated from coat of mine native, Robinson Deep (T.R.L. 428, det. Baarn).

Mucor Rouxii Calm.

Doidge (1909) 7, 8.
isolated from ' leting ', made from malted grain of **Sorghum caffrorum** Beauv., from Basutoland, *Doidge.*

Mucor stercoreus (Tode) Link.

Hydrophora stercoraria Tode, Kalchbrenner & Cooke (1880) 25.
on dung, Somerset East, *MacOwan 487, 1299.*

Rhizopus arhizus Alf. Fischer.

Hopkins (1938 d) 510, (1939 d) 116, (1939 a) 29.
on **Nicotiana Tabacum** Linn., on leaf during curing, S. Rhodesia, *Hopkins.*
on artificial medium, Cedara, *Ripley.*

Rhizopus Artocarpi (Berk. & Curt.) Rac.

Doidge & Bottomley (1931) 31, as *Rhizopus* sp.
? on **Artocarpus integra** Merr., on fruit, Barberton, *Pole Evans.*

Rhizopus nigricans Ehrenb.

V. A. Putterill (1921) 529, (1923 a) 334 ; du Plessis (1936) 15 ; Cardoso (1937) 156 ; (1945) 154 ; Bates (1937 b) 189 ; Hopkins (1938 a) 99, (1939 a) pp.
? *Rhizopus stolonifer* Ehrenb., Hopkins (1932) 463.
Very common on decaying parts of plants, especially fruits, tubers and seedlings ; see host index.

PILOBOLACEAE.

Pilobolus crystallinus (Wiggers) Tode

Nel (1942) 8.
on dung, Stellenbosch, *Verwoerd,* (v. d. Byl 1166).

CHOANEPHORACEAE.

Cunninghamella sp.

isolated from eggs of **Nomadacris septemfasciata Serv.,** Pretoria, *Faure* 27545.

PIPTOCEPHALACEAE.

Syncephalastrum racemosum (Cohn) Schroet.

isolated from flannel, used underground in mine, Durban Roodepoort Deep (T.R.L. 216, det. Baarn).
on underground mine timber, New Modderfontein, (T.R.L. 253 det. Baarn).

MORTIERELLACEAE.

Haplosporangium bisporale Thaxter var.

St. John-Brooks (1936) 69.
isolated from **Phaseolus vulgaris** Linn., wilted plant, *Wager* (det. I.M.I.).

ENTOMOPHTHORALES.

ENTOMOPHTHORACEAE.

Empusa conglomerata Sorokin

Skaife (1921) 80.
on **Nephrotoma umbripennis** Alex., imago, Cedara, *Skaife*.

Empusa Fresenii Nowak.

on **Aphis** sp., on Sorghum caffrorum Beauv., Maritzburg, *Pole Evans*, 1387.

Empusa Grylli Fres.

Pole Evans (1907 a) 168, (1907 d) 953; Marloth (1913) 24; Skaife (1921) 81, (1925) 298; van der Byl (1922 d) 283; Verwoerd (1931 a) 298; McMartin (1935 a) 119, (1935 b) 181; Schaefer (1936) 22; Cardoso (1937) 151; Hopkins (1938 a) 99.

Entomophthora Grylli Fres., Massee (1908 b) 197.
on **Acridiidae** undet., Cedara, *Skaife*; Maritzburg, *Pole Evans*, 1481.
Aeolopus sp., Hartebeestpoort, *Schaefer*, 33434.
Glaphyracris cyanea Stall., Bizana, *Schaefer*.
Locustana pardalina Walk., Bloemfontein, *Verwoerd*; Kalahari, *Mally* (Stell. 243).
Nomadacris septemfasciata Serv., Natal and Transvaal, *Pole Evans*; widely distributed in Southern Thodesia, *Hopkins*; Outjo, *Locust Officer*, 27549; Mposa area, *v. Wyk*, 27592; Okahandja, *Locust Officer*, 27550; Nampula, *N. de Fontoura*; Metònia, Moamba and Manhiça, *Cardoso*; Lourenço Marques, *Guimarāis*; Cabo Delgado.
Oedaleus sp., Natal, *Lea*.

Empusa Lecanii Zimm.

on **Dactylopius Opuntiae** Ckll., Natal, *Ripley* (det. Petch).

Empusa Muscae Cohn

Skaife (1921) 78; van der Byl (1922 d) 283; Verwoerd (1931 a) 298; Hopkins (1938 a) 99; Nel (1942) 8.
on **Musca domestica** Linn., Bloemfontein, *Verwoerd*; Cedara, *Skaife*; Stellenbosch, *Brain* and *Verwoerd* (Stell. 279).
Muscidae undet., Cedara, *Skaife*.
Anthomyidae undet., Cedara, *Skaife*.
Stomoxys calcitrans Linn., Umtali (Rh. 2951).

Empusa sp.

Nel (1942) 8.
on **Naudauralea Tyrrhaea** Gram., Kluitjies Kraal, Wolseley, *v. d. Byl 98*.

Entomophthora Aphidis Hoffm.

Skaife (1921) 83; Hopkins (1937 a) 99.
on **Aphis** spp., Cedara, *Skaife*; Salisbury (Rh. 2113).

Entomophthora apiculata Thaxt.

on **Lepidoptera :** imagines of **Lycophotia muscosa** Geyer, of an undet. **Geometrid** and a **Lycaenid:** larvae of **Pachypasa capensis** Aur., Cedara, *Skaife.*
Diptera : imagines of a large **Anthomyid** fly and of **Nephrotoma unicingulata** Alex., Cedara, *Skaife.*
Coleoptera : imagines of **Trocalus fulgidus** Fabr. and of **Adoretus ictericus** Borm., Cedara, *Staples.*
Hemiptera : adults of **Locris arithmetica** Walk., Cedara, *Skaife.*

Entomophthora coronata (Cost.) Kev.

Schaefer (1941) 241.
on **Camponotus** sp., Pretoria, *Schaefer.*

Entomophthora megasperma Cohn

Skaife (1921) 84.
on **Euxoa segetis** Schiff., on larvae, Cedara, *Skaife.*

Entomophthora sphaerosperma Fres.

Ullyett & Schonken (1940) 1, 6.
on **Plutella maculipennis** Curt., Pyramids, *Ullyett & Schonken.*

Entomophthora sp.

on **Acanthopsyche Junodi** Heyl. Natal, causing extensive epidemics in 1923, *Ripley,* Cedara, 30443.

ASCOMYCETES

LABOULBENIALES.

LABOULBENIACEAE.

Laboulbenia anomala Thaxt.

Thaxter (1899) 157 ; Sacc. Syll. Fung. XVI : 682.
on **Orectogyrus suturalis** Req., Zambesi.

Laboulbenia bilabiata Thaxt.

Thaxter (1905) 315.
on **Brachynus armiger** Dej., Cape of Good Hope.

Laboulbenia Dryptae Thaxt.

Thaxter (1902) 27 ; Sacc. Syll. Fung. XVII : 920.
on **Drypta ruficollis** Dej., Natal.

Rhachomyces Dolichaontis Thaxt.

Thaxter (1901) 39, (1931) 285 ; Sacc. Syll. Fung. XVI : 691.
on **Dolichaon lathrobioides** Casteln., Cape, *Sharp.*

Rhizomyces confusus Thaxt.

Thaxter (1918) 710 ; Sacc. Syll. Fung. XXIV : 137.
Rhizomyces crispatus pr. p. Thaxter (1900 a) 434 ; Sacc. Syll. Fung. XVI : 680.
on **Diopsidae** undet., Natal.

PEYRITSCHIELLIACEAE.

Eucantharomyces africanus Thaxt.

Thaxter (1900 a) 418 ; Sacc. Syll. Fung. XVI : 676.
on **Callidea natalensis** and **Callidea** sp., Natal.

Monoicomyces zealandicus Thaxt.

Thaxter (1931) 51.
on **Atheta obtusidius** Epp., Cape Town, *Thaxter 2485.*

Stichomyces capensis Thaxt.

Thaxter (1931) 250.
on **Conosoma angustum** Bernh., Cape Town, *Thompson.*

ENDOMYCETALES.

(Gymnoascales.)

ASHBYACEAE.

Ashbya Gossypii (Ashby & Nowell) Guill.

St. John-Brooks (1936) 14.
Nematospora Gossypii Ashby & Nowell, Moore (1930) 13 ; Doidge & Bottomley (1931) 20, 25.

on **Gossypium** sp., bolls, northern and eastern Transvaal, Magut, Premier Cotton Estates, Moçambique, *Moore*; common throughout the more humid parts of the cotton belt, *Moore*.

Firmiana simplex Wight., Rustenburg, *Moore*.

Phaseolus vulgaris Linn., ? Northern Transvaal, *Moore*.

Nematospora Corylii Pegl.

Moore (1930) 15; Doidge & Bottomley (1931) 20, 25; Hopkins (1938 a) 100, (1939 a) 15, 21, (1943) 188.

on **Bauhinia Galpinii** N.E. Br., seeds, Pretoria, *Bottomley*, 25454.

Crotalaria juncea Linn., Salisbury, Gatooma, Mashangani, *Hopkins*.

Gossypium sp., bolls, Northern Transvaal, *Moore*: Salisbury, Bindura, Concession, *Hopkins*.

Phaseolus vulgaris Linn., Magut, *Parsons*, 21220; Utrecht, *Neethling*, 23207, 23208; Gamtoos River Valley, *Galpin*, 26693; Penhalonga, *Hopkins* (Rh. 5615); Letaba, *Grime*, 26573.

ENDOMYCETACEAE.

Hanseniospora Guilliermondii Pijper

Pijper (1928) 989; Dodge (1936) 143.

isolated from onychomycosis of European woman, Pretoria, *Pijper*: pathogenicity quite probable, but not proved.

COCCIDIOIDEACEAE.

Histoplasma capsulatum Darling

Simson & Barnetson (1942) 302.

isolated from lesions in mouth of European usually resident in Southern Rhodesia, Johannesburg, *Simson & Barnetson*.

Rhinosporidium Seeberi (Wernicke) Seeber

Rhinosporidium Kinealyi Minchin & Fantham, Simson & Strachan (1937) 83.

as *Rhinosporidium* sp., Zschokke (1913) 641; Quinlan & de Kock (1926).

found in infection of the conjunctiva in 5 cases, 2 European and 2 native boys, 1 native adult, Johannesburg and Duivelskloof, *Simson & Strachan*.

found in tumour from septum nasi of horse, *Theiler*.

found in tumours situated on Regio Respiratorio of nasal chambers of a mule; in a second case in tumour on leg and in nasal cavity of mule.

EREMASCACEAE.

None recorded; for conidial forms see Eremascaceae Imperfectae in the Fungi Imperfecti.

SACCHAROMYCETACEAE.

Kloeckerospora uvarum Niehaus

Niehaus (1932) 146.

isolated from **Vitis vinifera** Linn., bark, Government vineyard, Elsenburg, *Niehaus*.

Saccharomyces acidi-lactici Grotenf.

Chapman & Baker (1907); Doidge (1910) 5.

isolated from "leting" and from kaffir beer, *Juritz*.

Saccharomyces Cerevisiae Hansen.

Used in all South African breweries ; as " top yeast " for brewing ales, and as " bottom yeast " for brewing lager (McKenzie).

Saccharomyces fragilis Jörg.

Chapman & Baker (1907) ; Doidge (1910) 5.
isolated from " leting " and from kaffir beer, *Juritz*.

Saccharomyces sp.

on **Ficus carica** Linn., common in ripe fruit after rain, south-western Cape, *Dippenaar* ; Transvaal, *Bottomley*.

Saccharomyces sp.

on **Litchi sinensis** Sonn., fruit, Natal coast and eastern Transvaal, *Bottomley*.

Saccharomyces spp.

isolated from sputum (? contaminants), Medical Research Institute, Johannesburg, *H. I. Lurie*.

Saccharomyces spp.

Doidge (1910) 15.
isolated from kaffir beer made from " mabele " (*Sorghum caffrorum* Beauv.) and maize (*Zea Mays* Linn.).

Many " wild " yeasts occur ; some of those occurring on *Mesembryanthemae*, fruits of the " marula " (*Sclerocarya caffra* Sond.) and on other indigenous plants are used by natives for fermenting liquids ; others cause fermentative injury to fruits, food materials, etc. The species used in the wine-making industry have not been identified.

Schizosaccharomyces ovis Quin.

Quin (1943) 107 ; Clark (1946) 154.
in ruminal ingesta of sheep fed on lucerne, Onderstepoort, *Quin*.

TAPHRINALES.

PROTOMYCETACEAE.

Byssochlamys nivea Westling

isolated from canned, pasteurised cheese, Durban, *Wickens* (det. E. W. Mason).

TAPHRINACEAE.

Taphrina aurea Sadeb.

Pole Evans (1906 a) 140; Verwoerd (1929 b) 23 ; Doidge & Bottomley (1931) 51 ; Nel (1942) 14.
on **Populus alba** Linn. var. **pyramidalis** Bunbe, Stellenbosch, *Verwoerd* (Stell. 142) ; Klapmuts, *v. d. Byl 69*.

Populus nigra Linn. var. **italica** du Roi, Constantia, Wynberg, Stellenbosch, Klapmuts, *Verwoerd*.

Populus sp., Stellenbosch, *Malleson*, 546 ; Constantia, *Pole Evans*, 41, 459.

Taphrina deformans (Fuck.) Tul.

van der Byl (1922 d) 283; Eyles (1926) 644; Verwoerd (1929 b) 20. (1931 a) 298; Doidge & Bottomley (1931) 41, 47; Hopkins (1930) 647, (1938 a) 104, (1939 a) 36.

Exoascus deformans Fuck., Fuller (1902) 624; Pole Evans (1906 a) 139; Cardoso (1945) 153.

on **Prunus persica** Sieb. & Zucc., Wellington, *Stoneman*, 7360; Stellenbosch, *Verwoerd* (Stell. 100); Elgin, Paarl, Wellington, Caledon, Bredasdorp, Wynberg, Piquetberg, Robertson, Montagu, Tulbagh, *Verwoerd*; Morgenzon, *Wolfaard*, 19865; Bloemfontein, *Verwoerd*; on fruit, Wepener, *Roux*, 34085; Pretoria *D. Gunn*, 10718, 11672; Johannesburg, *J. Phillips*, 18030, *Easton*, 24878, *Adler*, 24879; Bethal, 1012; Delmas, *Thomsen*, 1020; Waterval, Elandshoek, *Wager*, 22385; Inyazura (Rh. 943); Inyanga, *Eyles*; Salisbury, *Hopkins*; Lourenço Marques, *Nascimento*.

Prunis persica var. **nucopersica** Schneid., Stellenbosch, Wynberg, *Verwoerd*.

Taphrina Mume Nish.

on **Prunus Armeniaca** Linn., Wellington, *Dippenaar*; Johannesburg, 18061; Frankfort *Haines*, 24881; Golden Valley, *Abrahamson*, 26612; Kokstad, *Payne*, 31975.

Taphrina Pruni (Fuck.) Tul.

? on **Prunus salicina** Lindl., south-western Cape, *Dippenaar*.

MYRIANGIALES.

MYRIANGIACEAE.

Ascostratum insigne Syd.

H. & P. Sydow (1912 a) 41; Theissen & Sydow (1917 b) 441; Doidge (1924 a) 206.

on **Euphorbia** sp., Amanzimtoti, *Doidge*, 1660 Type, 6625.

Elsinoë ampelina (de Bary) Shear.

See *Sphaceloma ampelinum* de Bary; perfect stage of this fungus has not been found in South Africa.

Elsinoë Fawcetti Bitanc. & Jenk.

See *Sphaceloma Fawcetti* Jenk.; perfect stage has not been found in South Africa.

Elsinoë Poinsettiae Jenkins.

See *Sphaceloma Poinsettiae* Jenk.; the perfect stage has not been found in South Africa.

Elsinoë Pyri (Woron.) Jenkins

Hopkins (1939 a) 39 (Sphaceloma stage).

? on **Pyrus malus** Linn., leaves, Umtali, *Hopkins*.

Elsinoë Violae Jenkins.

See *Sphaceloma Violae* Jenk.: the perfect stage is not known in South Africa.

Myriangium Montagnei Berk.
on **Lepidosaphes Gloveri** Pack on *Citrus sinensis*, Nelspruit, *Marloth*, 25485 ; Rivulets, *Marloth*, 25511.
Coccidae undet., on *Citrus sinensis*, Durban, *v. d. Merwe*, 34121 ; on *Mundulea sericea*, Donkerpoort, *Doidge*, 34133 ; on *Cluytia* sp., Hlabini Forest, *Morgan & Doidge*, 34122.

DOTHIDEACEAE.

Auerswaldia examinans (Mont. & Berk.) Sacc.
Doidge (1921 c) 20.
on **Citrus sinensis** Osbeck, bark, Krantzkloof, *Bell*, 7733.

Auerswaldia scabies (Kalchbr. & Cooke) Sacc.
Saccardo, Syll, Fung. II : 626 ; Theissen & Sydow (1915) 300.
Dothidea scabies Kalchbrenner & Cooke (1880) 32.
on leaves of tree undet., Noodsberg, *Medley Wood 50*, 10436, Kew; Kaffraria, *MacOwan 48*.
Doubtful species.

Dothidea aloicola P. Henn.
Theissen & Sydow (1915) 336 ; Nel (1942) 11.
on **Aloe mitriformis** Mill., Stellenbosch, *v. d. Byl 1164, 1677*, Kew.

Dothidella Welwitschii A. L. Sm.
Lorrain Smith (1898) 179, (1901) 477 ; Sacc. Syll. Fung. XVI : 627 ; Theissen & Sydow (1915) 326.
on **Welwitschia Bainesii** (Hook. f.) Carr., near Cabo Negro, Mossamedes, *Welwitsch 206*, Type.
Doubtful species.

Elmerococcum Peglerae (Pole Evans) Doidge
Doidge (1921 c) 20 ; Simpson & Talbot (1946) 133.
Montagnella Peglerae Pole Evans (1918 c) 110.
on **Rapanea melanophleos** Mez., Kentani, *Pegler 1892*, 2206, Type, 6620, Kew ; Hogsback, *K. M. Putterill*, 30070 ; Montagu Pass, *Doidge*, 17106 ; Woodbush, *Doidge*, 1755 ; Qudeni Forest, *Simpson & Talbot*, 35004.

Erikssonia Carissae Doidge
Doidge (1948a) 837.
on **Carissa bispinosa** (Linn.) Desf., on leaves, Mtunzini, *Laughton*, 33545, Type.

Leveillina Arduinae (Kalchbr. & Cooke) Theiss. & Syd.
Theissen & Sydow (1915) 286.
Dothidea arduina Kalchbrenner & Cooke (1880) 31 ; Sacc. Syll. Fung. II : 642.
on **Carissa bispinosa** (Linn.) Desf., Somerset East, *MacOwan 1354*, Kew, Type.

Microcyclus kentaniensis Doidge
Doidge (1948a) 837.
on **Asparagus plumosus** Bkr., stems, Kentani, *Pegler*, 8885, Type.

Perischizon oleifolium (Kalchbr. & Cooke) Syd.
H. & P. Sydow (1914 b) 265 ; Theissen & Sydow (1915) 269 ; Doidge (1921 c) 22 ; Doidge & Bottomley (1931) 31 ; Nel (1942) 11.

Dothidea oleifolia Kalchbrenner & Cooke (1880) 31 ; Sacc. Syll. Fung. II : 642.
on **Olea capensis** Linn., St. James, *Pole Evans*, 5574 ; Kirstenbosch, *Pearson*, 7374 ; Knysna *J. Phillips*, 20395, *v. d. Byl 2305* : Montagu Pass, *Doidge*, 17132 ; Storms River, *Doidge*, 17174 ; Assegai Bush, *Doidge*, 17240.
Olea laurifolia Lam., Knysna, *Pienaar*, 2421 ; Deepwalls, *Doidge*, 17197 ; Woodbush, *Pole Evans*, 769 ; Malelane, *Hall*, 9749 ; Orange Kloof, Table Mt., *Wolley Dod 866*, Kew ; Skeleton Ravine, Table Mt., *Wolley Dod 3641*, Kew ; near Grahamstown, *F. A. Rogers 29931, 29932*, Kew ; Table Mt., *Marloth*, 33977.
Olea macrocarpa C. H. Wright, Woodbush, *D. F. O.*, Kew.
Olea Woodiana Knobl., East London, *Doidge*, 10904.

Parodiella perisporioides (Berk. & Curt.) Speg.

Sacc. Syll. Fung. I : 717 ; Doidge (1917) 721 ; Theissen & Sydow (1917 a) 127 Hansford (1926 a) 13.
Dothidea perisporioides Berk. & Curt., Cooke (1879) 72 ; Cooke & Kalchbrenner (1881) 27 ; Kalchbrenner (1882 a) 146.
Parodiella grammodes (G. Kunze) Cooke, P. Hennings (1903) 165.
as *Parodiella paraguayensis* Speg., Hopkins (1939 a) 4.
on **Aeschynomene nyassana** Taub., Marandellas, *Hopkins*.
Crotalaria dura Wood & Evans, Highflats, *Dyer*, 32398.
Desmodium hirtum G. & P., Inanda, *Medley Wood 541*, 9490, 10438, Kew.
Eriosema cordatum E. Mey., Inanda, *Medley Wood 664*, 9467, 10434, Kew.
Eriosema Englerianum Harms., Salisbury, Banket, Inyanga, *Hopkins*.
Eriosema salignum E. Mey., Inanda, *Medley Wood 471*, 10432, Kew ; Mooi River, *Mogg* 10074.
Psoralea decumbens Ait., Newlands, *Lounsbury*, 1005.
Sphenostylis angustifolia Sond., Inanda, *Medley Wood 115*, 9515, 9486, 10439, 13081, Kew ; Garstfontein, *Pienaar*, 1201, 1958 ; Pretoria, *Pole Evans*, 6694, *Pont*, 24947 ; Derdepoort, *Doidge & Bottomley*, 33929.
Tephrosia sp., between Quiriri and Kampuluvu, *Baum 733*.

Var. **microspora** Theiss. & Syd.

Theissen & Sydow (1917 a) 129.
on **Indigofera hilaris** E. & Z., Belfast, *Doidge*, 576.
Indigofera malacostachys Benth., Rietvlei, Pretoria, *Acocks*, 31079.
Indigofera neglecta N.E. Br., Pretoria, *Mogg*, 11511 ; Nelspruit, *Wager*, 26114.
Indigofera tristis E. Mey., Leribe Mts., *Dieterlen*, 24338.
Indigofera sp., Inanda, *Medley Wood 684*, Kew.

Phragmodothella nervisequens Doidge

Doidge (1921 c) 22.
on **Burchellia bubalina** (Linn. f.) Sims, van Stadens Pass, *Pole Evans*, 11446, Type ; Keurkloof Forest, *Doidge*, 17120 ; Deepwalls, *Doidge*, 17203 ; Storms River, *Doidge*, 17161

Phragmodothis asperata Syd.

Theissen & Sydow (1915) 345 ; Doidge (1921 c) 23 ; Sacc. Syll. Fung. XXIV 551.
Montagnella asperata Syd., H. & P. Sydow (1912 c) 442.
on **Euphorbia Schinzii** Pax, Wapadsnek, *Pienaar* 2159, Type, 7353 ; Pretoria, *Impi*, 8759, *C. A. Smith*, 25929 ; Meintjes Kop, *R. A. Dyer*, 34146.
Doubtful genus ; see Petrak (1929) 339.

Stichodothis disciformis (Wint.) Petrak.

Petrak (1927) 193.

Auerswaldia disciformis Winter (1884 b) 170; Sacc. Syll. Fung. IX: 1033.

Dothidina disciformis (Wint.) Theissen & Sydow (1915) 304; Doidge (1921 c) 21; Doidge & Bottomley (1931) 66; Hansford (1946 a) 10.

Bagnisiopsis disciformis (Wint.) Nel (1942) 11.

on **Myrica conifera** Burm. f., Krantzkloof, *v. d. Byl*, 8396; Bains Kloof, *Acocks* (E. L Stephens 344) 34464.

Myrica cordifolia Linn., Cape Town, *MacOwan*, Type (Rabenh. Wint. Fung. Eur. 3063) 3403, 21945, Kew: False Bay, *Mitchell*, 17267; Port Elizabeth, *L. Britten*, 33574; Cape Flats, *R. Marloth*, 33575: Mossel River, Hermanus, *Pole Evans*, 33576: Witzand, *J. C. Smuts*, 33577; Fishhoek, *Peers*, 33578.

Myrica linearis DC., Stellenbosch, *Levyns*, 21107.

Myrica quercifolia Linn., Bredasdorp, *Acocks*, 27284.

Myrica spp., Uniondale, *Verwoerd* (v. d. Byl 2189); Nattevlei, Klapmuts, *v. d. Byl 1054*: Stilbaai, *Grosskopf* (v. d. Byl 2180); Hawston, *v. d. Byl 574*; Tulbagh, *Dippenaar* (v. d. Byl 2428); Stellenbosch, *v. d. Byl 1036*; Wemmershoek, *Dippenaar* (Stell. 1883); Frenchhoek, *Dippenaar* (Stell. 539); Stellenbosch, *Verwoerd* (Stell. 111).

MONTAGNELLACEAE.

Diplochorella amphimelaena (Mont.) Theiss. & Syd.

Theissen & Sydow (1914) 277, (1915) 621; Doidge (1921 c) 18; van der Byl (1925 b) 192; J. Phillips (1931) 159; Nel (1942) 11.

Dothidea amphimelaena Montagne (1843 a) 372.

Homostegia amphimelaena (Mont.) Saccardo, Syll. Fung. II: 650.

Phyllachora Osyrydis Cooke (1885 a) 64.

Dothidella Osyridis (Cooke) Berl. & Vogl., Sacc. Syll. Fung. IX: 1038.

Dothidella Osyridis var. *Tassidna* Saccardo (1896) 69, Syll. Fung. XIV: 676.

Microcyclus Osyridis Sacc., H. & P. Sydow (1904 b) 165.

Microcyclus Tassianus Syd., H. & P. Sydow (1904 b) 165.

on **Osyris abyssinica** Hochst., Cape, *Boivin*, *Ecklon*, Kew (ex Herb. Berk.); Muizenberg *MacOwan* (Rabenh. Wint. Fung. Eur. 3562) 3902, Kew; Muizenberg, *Beardmore* 2292; Kloof Nek, *Doidge*, 2155; St. James, *Pole Evans* (Syd. Fung. exot. 188) 1982 1791, Kew; Kalk Bay, *Potts*, 11302; Kögel Bay, eastern shores of False Bay, *Mitchell* 15452; Knysna, *J. Phillips*, 20397, *Bottomley*, 32238, 32262: Bredasdorp, *Acocks*, 27285; Belmont Valley, *Doidge*, 10954: Port Elizabeth, *Doidge*, 1243: Gordon's Bay, *du Plessis* (Stell. 590); Storms River, *Keet & Laughton*, 34321.

Diplochorella Burchelliae Syd.

H. & P. Sydow (1920 a) 158; Sacc. Syll. Fung. XXIV: 632.

on **Burchellia bubalina** (Linn. f.) Sims, "probably collected in South Africa."

Montagnella maxima Mass.

Massee (1899) 291: Sacc. Syll. Fung. XVI: 630: Theissen & Sydow (1915) 638; Doidge (1921 c) 20; van der Byl (1925 b) 192; Verwoerd (1929 b) 5; Doidge & Bottomley (1931) 5; Nel (1942) 18; Hansford (1946 a) 15.

on **Aloe africana** Mill., Bot. Garden, Grahamstown, *Archibald*, 35279.

Aloe cryptopoda Bkr., Chunespoort, *K. M. Putterill*, 32757.

Aloe dolomitica Groen., Naboomspruit, *Galpin*, 30986.

Aloe ferox Mill., Graaff Reinet, *Burtt Davy*, 5156: Uitenhage, *Pienaar*, 2496: Amanzi, *Doidge*, 22337; Port Elizabeth, *Doidge*, 2274; Mossel Bay, *v. d. Byl 1343*.

Aloe platylepis Bkr., Cape, *Rogers*, Kew ; Port Elizabeth, *Doidge*, 1312.
Aloe spp., Potgietersrust, *Melle*, 15500 ; without locality, *E. L. Stephens*, 25862 ; Arcturus, *Hopkins* (Rh. 4782).

Rosenscheldia horridula Doidge

Doidge (1921 c) 20.
on **Olea capensis** Linn., Umgeni, *Pole Evans*, 5149 ; East London, *Doidge*, 12411.
Olea Woodiana Knobl., East London, *Doidge*, 10903.

Teratosphaeria fibrillosa Syd.

H. & P. Sydow (1912 a) 40 ; Theissen & Sydow (1915) 631 ; Doidge (1922 a) 71 ; Sacc. Syll. Fung. XXIV : 635 ; Doidge & Bottomley (1931) 53.
on **Protea abyssinica** Willd., Fairy Glen, Pretoria, *Doidge* (Syd. Fung. exot. 938) 23372, 29414, Kew ; Boekenhout Kloof, Pretoria, *Mogg*, 26365.
Protea caffra Meisn., Waterkloof, Pretoria, *Mogg*, 23454.
Protea grandiflora Thunb., Bains Kloof, *Doidge* (Syd. Fung. exot. 31) 1029, 1217, Type, 2059, 5224, Kew, *Stoneman*, 2232 ; Assegai Bush, *Doidge*, 17239.

PARODIELLINACEAE.

PARODIELLINEAE.

Parodiellinopsis transvaalensis Hansf.

Hansford (1946 a) 16, (1946 b) 141.
on **Helichrysum ? acutatum** DC., Hendricksdal, Pilgrims Rest, *Pole Evans*, 14693, Type.

PARODIOPSIDINEAE.

Meliolina arborescens Syd.

Hansford (1946 b) 151.
as *Meliolina cladotricha* (Lev.) Syd., Doidge & Sydow (1928) 427 ; Doidge & Bottomley (1931) 66.
as *Meliola cladotricha* Lév., Nel (1942) 19.
on **Syzygium Gerrardi** (Harv.) Hochst., Woodbush, *Gray*, 888, *Doidge*, 1759, 17754, 28337, *K. M. Putterill*, 32751, *v. d. Byl 1530, 1660* ; Entabeni, *Bosman*, 26112, 33297 b *Laughton*, 33911.
Syzygium Legati Burtt Davy & Greenway, Zoutpansberg, *Bosman*, 33056.

Nematostigma obducens Syd.

H. & P. Sydow (1913) 262 ; Doidge (1927 b) 230 ; Sacc. Syll. Fung. XXIV : 973 ; Hansford (1946 a) 20, (1946 b) 144.
on **Scutia myrtina** (Burm.) Kurz., Port Elizabeth, *Doidge*, 1242 : Bonza Bay, East London, *Bottomley*, 26682.

Parodiopsis Brachystegiae (P. Henn.) Arnaud

Arnaud (1921) 68 ; Hansford (1946 a) 18.
Parodiella Brachystegiae P. Hennings (1900 b) 325 ; Sacc. Syll. Fung. XVI : 412.
Dimerosporium erysiphinum P. Hennings (1903) 164.
Dimerium erysiphinum (P. Henn.) Saccardo, Syll. Fung. XVII : 537.
Dictothrix erysiphina (P. Henn.) Theissen (1912 a) 60.
Chrysomyces Brachystegiae (P. Henn.) Theissen & Sydow (1917 a) 139.
Schistodes erysiphina (P. Henn.) Theiss., Theissen & Sydow (1917 b) 456.
on **Brachystegia** sp., Moçambique, *de Cavalho*.
Copaifera Baumiana Harms., on the Kusisi River, near Likisi, *Baum 781*, Kew.

ERYSIPHACEAE.

Erysiphe Aquilegiae DC.

as *Oidium* sp., Verwoerd (1929 b) 10 ; Hopkins (1943) 179.
? on **Aquilegia** sp., Stellenbosch, Wynberg, *Verwoerd* ; M'sineddi, *Hopkins* (Rh. 4086), (Oidium only).

Erysiphe Brachystegiae Doidge

Doidge (1948a) 838.
as *Uncinula* sp., Hopkins (1939 a) 7.
on **Brachystegia Randii** Bak. f., Salisbury, *Hopkins 1647*, 25946, 26621.

Erysiphe cichoracearum DC.

Burtt Davy (1904) 296 ; Doidge (1915 a) 242 ; Doidge & Bottomley (1931) 22 38, 54, 66 ; Hopkins (1938 a) 100, (1939 a) 6, 15, 24 ; Cardoso (1937) 152, (1938) 76, (1939) 45, (1945) 156.
as *Oidium* sp., Verwoerd (1929 b) 11, 16, 17, 24, (1931 a) 299.
Oidium only ; the perithecial stage has not been found in South Africa.
on **Aster** spp. (Michaelmas Daisy), Bulawayo (Rh. 1356) ; Pretoria, *Bottomley*, 25427 ; Durban, *McClean*, 30764.
Citrullus vulgaris Schrad., Worcester, *du Plessis* (Stell. 586).
Cucumis Melo Linn., French Hoek, Ladismith, *Verwoerd*.
Cucumis sativus Linn., Pretoria, *Bottomley*, 7373 ; Salisbury (Rh. 1117) ; Stellenbosch, Diep Rivier, *Verwoerd*.
Cucurbita maxima Duch., Pretoria, *Bottomley*, 15669.
Cucurbita Pepo Linn., Pretoria, *Burtt Davy*, 100, 150, *Pole Evans*, 268, 270, *Bottomley*. 27360 ; Pretoria North, *Mogg*, 32660, 32691 ; Bloemfontein, *Potts*, 11316, *Verwoerd* ; Kentani, *Pegler*, 6581 ; Durban, *McClean*, 22088, *Wager*, 32420 ; Stellenbosch, *v. d. Byl*, *Verwoerd* ; Kuils Rivier, Diep Rivier, Wynberg Flats, Bellville, Paarl, George *Verwoerd* ; Riversdale, *du Plessis*, (Stell. 515) ; Shangani (Rh. 1937) ; Salisbury, *Eyles 2067*, 14004 ; Theydon (Rh. 3120) ; Sul do Save, *Cardoso*.
Cucurbita sp., Umbeluzi, *Guimarães* ; Durban, *v. d. Byl*, 31925.
Lagenaria leucantha Rusby, south-western Cape, *Dippenaar* ; Nelspruit, *Liebenberg*, 26017.
Luffa cylindrica Roem., Banket (Rh. 2724).
Momordica clematidea Sond., Warmbaths, 617.
Viola tricolor, Linn., Pretoria, *Hean*, 32799.
According to Blumer (1933 : 411) an Oidium on Cucurbitaceae in Europe may belong to *Erysiphe cichoracearum* DC., or to *Sphaerotheca fuliginea* (Schlecht) Salm. : as no perithecial form has been found on Cucurbitaceae in South Africa, the identification of this very common and widespread fungus must be regarded as tentative.

Erysiphe communis (Wallr.) Link

Doidge (1948a) 839.
as *Erysiphe Polygoni* DC., Doidge (1915) 241.
on **Triumfetta Sonderi** Ficalho & Hiern, Sunnyside, Pretoria, *Doidge*, 2291, *v. d. Byl* 8880.
Oidium only :
?on**Brassica rapa** Linn., Salisbury, *Hopkins* (Rh. 4963).
Corchorus trilocularis Linn., Louis Trichardt, *Fitzgerald*, 26851.
Papaver nudicaule Linn., south-western Cape, *Dippenaar*.
Papaver Rhoeas Linn., Durban, *McClean*, 30470 ; Stellenbosch, *Dippenaar* (Stell. 1009).

Erysiphe graminis DC.

MacOwan (1893) 463; Pole Evans (1906) 133; Doidge (1915) 242; Verwoerd (1929 b) 7, (1931 a) 299; Doidge & Bottomley (1931) 11, 67; Hopkins (1938 a) 100, (1939 a) 23, 46; Nel (1942) 14.

on **Avena sativa** Linn., Pretoria, *Pole Evans*, 214.

Hordeum vulgare Linn., Wonderboom, *Pole Evans*, 37; Pretoria, *Pole Evans*, 215, 243; Bloemfontein, *Verwoerd*; Salisbury (Rh. 3056, 3057); Matopos (Rh. 985) Umtali, *Hopkins*; Rusapi (Rh. 3518); Louis Trichardt, *Sellschop*, 28321; Stellenbosch, *Verwoerd* (Stell. 2); Elgin, Paarl, Bredasdorp, Knysna, Caledon, *Verwoerd*; Stellenbosch, *v. d. Byl 924*, *Dippenaar* (Stell. 857; v. d. Byl 2581); Alexandria, *Erasmus*, 33153; Bellville, *du Plessis*.

Triticum aestivum Linn., Durbanville, *MacOwan*; Modderfontein, *Naude*, 7365; Buffelsvlei, *Naudé*, 8374; Lydenburg, *Neethling*, 9152; Schoemansrust, *Schoeman*, 11001; Pretoria, *Bottomley*, 12457; Rusapi, *Hopkins*; Stellenbosch, *Dippenaar* (Stell. 898).

Erysiphe Jatrophae Doidge

Doidge (1948a) 839.

sub *Erysiphe Polygoni* DC., Doidge (1915) 24; Nel (1942) 14; Hopkins (1943) 178.

on **Acalypha angustata** Sond., Garstfontein, *Erasmus*, 1266.

?on**Acalypha** sp., Salisbury, *Eyles 2071* (v. d. Byl 1973).

on **Jatropha Zeyheri** Sond., Pietersburg, *Thomsen*, 1286, Type.

Jatropha natalensis Müll. Arg., Ehlanzeni, *Doidge*, 8248 (Oidium only).

Jatropha Woodii O. Ktze., Ladysmith, *Pole Evans*, 2030 (Oidium only).

Erysiphe Martii Lév.

sub *Erysiphe Polygoni* D.C. ? Hopkins (1939 a) 24; Cardoso (1945) 156.

Oidium only:

on **Melilotus indicus** All., Pyramids, *Mogg*, 32693.

Lathyrus odoratus Linn., common throughout South Africa; Somerset West. Stellenbosch, Wynberg, *Verwoerd*; M'Soneddi (Rh. 1346); Umtali (Rh. 1417) Kew; Salisbury (Rh. 2756); Durban, *Platt*, 31964; Lourenço Marques, *Mota*.

Erysiphe nitida (Wallr.) Rabenh.

Doidge (1948a) 840

sub *Erysiphe Polygoni* DC., Hopkins (1938 a) 100, (1939 a) 7.

as *Oidium* sp., Verwoerd (1929 b) 11.

on **Delphinium Ajacis** Linn., Johannesburg, *Sieling*, 14123; Pretoria, *Bottomley*, 23624 Imvani, *Bisset*, 26598; Windhoek, *G.V.O.*, 34159.

Delphinium cultorum Voss., New England Rail, *Lawrence*, 25928; Salisbury, *Hopkins*, 25947; Durban, *McClean*, 24897; White River, *Wager*, 27694; Pretoria, *Doidge*, 28510, 28957; Maritzburg, *Schmutz*, 30120; Salisbury (Rh. 141, 1597, 1650, 2425, 2757, 2764) Kew; Bulawayo, Umtali, *Hopkins*; Wynberg, Stellenbosch, Elgin, *Verwoerd*; Windhoek, *G.V.O.* 34159; Johannesburg, *Bottomley*, 34057.

?on**Knowltonia glabricarpellata** Huth., The Heads, Knysna, *Bottomley*, 32261 (Oidium only).

Erysiphe Pisi DC.

sub *Erysiphe Polygoni* DC. emend. Salmon, Doidge (1915) 241; van der Byl (1922 d) 283: Verwoerd (1931 a) 299; Eyles (1926) 638; Hopkins (1938 a) 100, (1939 a) 24, 34; Cardoso (1939) 45, (1945) 157; Nel (1942) 14.

Oidium only:

on **Pisum sativum** Linn., Potchefstroom, *v. d. Byl*, 2259; Stellenbosch, *v. d. Byl 94*; Pretoria *Pole Evans*, 269; Zeerust, *Donovan*, 23635; Glenside, *Slemert*, 23394; Karino, *Wager*

22382; Cavendish, Umhlanga, Verulam, *Wager*; Avondale (Rh. 826, 873) Kew; Rusapi (Rh. 2400); Bubi, *Eyles*; Marandellas (Rh. 3041); Salisbury (Rh. 3412, 3413), *Eyles* (v. d. Byl 1295); Umbeluzi, *Guimarāis*.

?on**Medicago hispida** Gaertn., Constantia, 736.

Lupinus sp., Rhodesia, *Hopkins* (Rh. 3523).

Vicia Faba Linn., Ofcalaco, *Wager*, 27806; Moçambique, *Cardoso*.

Erysiphe umbelliferarum de Bary

Doidge (1948a) 840.

on **Trachymene caerulea** Graham, Utrecht, *v. d. Spuy*, 30929.

Leveillula taurica (Lév.) Arn.

Doidge & Bottomley (1931) 40.

sub *Phyllactinia corylea* (Pers.) Karst., Hopkins (1938 a) 100, (1939 a) 42, 47.

Oidiopsis taurica Lév., v. d. Byl (1922 b) 287; Nel (1942) 101.

Oidiopsis only:

on **Capsicum frutescens** Linn., White River, *Hart*, 25894; Nelspruit, *Wager*, 27589; Malagazi, *Wager*, 32712.

Tropaeolum majus Linn., Pretoria, *Pole Evans*, 473, 638, 945, *Wager*, 21578, *Hean*, 32742; Muckleneuk, Pretoria, *King*, 27288; Kentani, *Pegler*, 5668; Durban, *Wager*, 32419; Stellenbosch, *v. d. Byl 469*; George, *Verwoerd* (Stell. 600); Salisbury (Rh. 1534), *Hopkins* (Rh. 866) Kew.

Solanum incanum Linn., Melsetter, *Hopkins*.

Microsphaera polonica Siemaszko.

See *Oidium Hortensiae* Jorstad; the perithecial stage of this fungus has not been found in South Africa.

Phyllactinia Acaciae Syd.

H. Sydow (1935) 233; Doidge (1948a) 840.

on **Acacia robusta** Burch., Klapperkop, *Mogg*, 23428, Type.

Phyllactinia Combreti Doidge

Doidge (1948a) 841.

sub *Phyllactinia corylea* (Pers.) Karst., Doidge (1915) 242; van der Byl (1926 c) 285.

on **Combretum Zeyheri** Sond., Pretoria, *Doidge*, 1506 Type, *Pole Evans*, 9743; Letaba Drift, *Doidge*, 1806.

Phyllactinia Erythrinae Doidge

Doidge (1948a) 841.

on **Erythrina caffra** Thunb., Greytown, *Doidge*, 15418 Type; Nelspruit, *Wager*, 23398; Durban, 25895; Harden Heights, *Pole Evans*, 1394; Nelspruit, *Liebenberg*, 25991.

Phyllactinia Evansii Doidge

Doidge (1948a) 842.

on **Burkea africana** Hook., Wonderboom, *Pole Evans*, 9758, Type.

Phyllactinia rhoina Doidge

Doidge (1948a) 842.

sub *Phyllactinia corylea* (Pers.) Karst., Doidge (1915) 242.

on **Rhus pyroides** Burch, var. **transvaalensis** Schon., Garstfontein, *Pienaar*, 6662 Type, 1533; Brits, *Moore*, 23235.

Rhus discolor E. Mey., Grootfontein near Harrismith, *v. d. Byl*, 2317.

Phyllactinia Sphenostylidis Doidge

Doidge (1948a) 843.

sub *Phyllactinia corylea* (Pers.) Karst., Doidge (1915) 243.

on **Sphenostylis angustifolia** Sond., Groenkloof, *Bottomley*, 17024 Type ; Sunnyside, Pretoria, *Pole Evans*, 1413, 1510, 6693 ; Garstfontein, *Pienaar*, 2252 ; Waterkloof, Pretoria, *Wager*, 23357 ; Donkerpoort, *Doidge & Bottomley*, 29730 ; Debbe's Ravine, *Bosman*, 35164.

Podosphaera leucotricha (Ell. & Everh.) Salm.

Pole Evans (1906 a) 132 ; Doidge (1905) 239 ; van der Byl (1922 d) 284 ; Doidge & Bottomley (1931) 7 ; Blumer (1933) 148 ; Hopkins & Bacon (1938) 457 ; Hopkins (1938 a) 100, (1939 a) 39 ; Nel (1942) 14.

Oidium farinosum Cooke in Rabenh. Wint. Fung. Eur. 4498.

as *Oidium* sp., Verwoerd (1929 b) 6.

on **Pyrus malus** Linn., Clocolan, *Harper*, 1079, 9531 ; Johannesburg, 430, 448, 1077 ; Pretoria, *Cairncross*, 256 ; Bethal, 1291 ; Stellenbosch, *v. d. Byl 93* ; Piquetberg, George, *Verwoerd* ; Wynberg, *MacOwan* (Rabenh. Wint. Fung. Eur. 4498) Kew ; near Victoria West, *MacOwan* (S.A.M. 35167) ; Villiersdorp, *v. d. Byl 69* ; Umtali (Rh. 908, 1022, 1451, 2368, 3092, 3438) ; Salisbury, (Rh. 2130, 3499) ; Cashel (Rh. 3437) ; M'soneddi (Rh. 3488) ; Marandellas (Rh. 3506, 3531).

Sphaerotheca fuliginea (Schlecht.) Salmon

Sphaerotheca Humuli (DC.) Burr. var. *fuliginea* (Schlecht.) Salm., Doidge (1915) 239 ; Doidge & Bottomley (1931) 13, 20 ; Hopkins (1939 a) 8.

as *Oidium* sp., Verwoerd (1929 b) 11.

on **Bidens pilosa** Linn., Pretoria, *Doidge*, 895, 6603 ; Potchefstroom, *v. d. Byl*, 2257.

Cosmos bipinnatus Cav., Pretoria, *Pole Evans*, 1301 ; Stellenbosch, *Verwoerd*, (Stell. 314) ; Wellington, Elgin, *Verwoerd* ; Bloemfontein, *Verwoerd*.

Coreopsis sp., Durban, *McClean*, 30452, 30673 ; Stellenbosch, *du Plessis* (Stell. 845) ; Salisbury, *Hopkins* (Rh. 1229) Kew.

Sphaerotheca Humuli (DC.) Burr.

as *Oidium* sp., Verwoerd (1929 b) 12.

? on **Humulus Lupulus** Linn., George, *Verwoerd* (Oidium only).

Sphaerotheca macularis (Wallr.) Jacz.

sub *Sphaerotheca Humuli* Burr., Hopkins (1938 a) 120, (1939 a) 19.

on **Fragaria** sp., Umtali (Rh. 2445, 3105) ; Marandellas (Rh. 2773) ; Mazoe, Salisbury, *Hopkins* (Oidium only).

Sphaerotheca pannosa (Wallr.) Lév.

Pole Evans (1906 a) 141 ; Doidge (1915) 239 ; van der Byl (1922 d) 284 ; Doidge & Bottomley (1931) 55 ; Hopkins (1938 a) 100, (1939 a) 41, (1943) 188 ; Cardoso (1937) 152, (1938) 74, (1939) 45, (1945) 162.

as *Oidium* sp., Verwoerd (1929 b) 20, 25, (1931 a) 299 ; Nel (1942) 14.

Oidium only :

on **Rosa canina** Linn., Diep Rivier, *Marloth*, 9434 ; Deepwalls, *J. Phillips*, 18162 ; Wellington, *Doidge*, 2063 ; Brooklyn, Pretoria, *Doidge*.

Rosa laevigata, Diep Rivier, *Marloth*.

Rosa spp. cult., Pretoria, *Pole Evans*, 110 ; Piet Retief, 120 ; Rustenburg, *Haarhoff*, 238, 449 ; Silverton, 436 ; The Downs, *Murray*, 30884 ; Deepwalls, *J. Phillips*, 18162 ; Stellenbosch, *Verwoerd* (Stell. 159, 395), *v. d. Byl 12* ; Somerset West, Rondebosch,

Rosebank, Cape Town, Elgin, *Verwoerd*; Bloemfontein, *Verwoerd*; Umtali, *Hopkins* (Rh. 1017) Kew; Mt. Pleasant, Gwelo, Theydon, *Hopkins*; Umbeluzi, *Howard*; Salisbury, Inyazura, Selukwe, Marandellas, *Hopkins*; Lourenço Marques, *Botelho & Rebêlo*; Matola, *Cardoso*.

Var. **Persicae** Woronich

Doidge & Bottomley (1931) 47.

Oidium leucoconium Desm., Louw (1946) 94.

on **Prunus armeniaca** Linn., Brits, *Pentz*, 34442.

Prunus persica Sieb. & Zucc., Rosebank, 30454; Simondium, *Pickstone*, 2250; of general occurrence in the winter rainfall area, *Louw*; Ceres, Montagu, Ladismith, Laingsburg, Clanwilliam, Elgin, Somerset West, Stellenbosch, *Louw*; Louterwater, *Rademeyer*, 34349; Pretoria District, *Zondagh*, 34423; Pretoria, *Bottomley*, 32699; Cedara, *Staples*, 15434; Constable, *Esterhuyse*, 33893; The Willows, *Brink*, 34097; Hartebeestepoort, *Sieling*, 34175; Liuden, Johannesburg, *Christensen*, 34171; Johannesburg, *v. Niekerk*, 34167; Ficksburg, *v. d. Vyver*, 34351.

Prunus persica var. **nucipersica** Schneid., South-western Cape, *Louw*.

Uncinula aspera Doidge

Doidge (1915) 240, (1948a) 843; Blumer (1933) 356; Sacc. Syll. Fung. XXIV: 224.

on **Ficus Petersii** Warb., Wonderboom, *Burtt Davy*, 1838, Type.

Uncinula circinata Cooke & Peck

Hopkins (1938 a) 101, (1939 a) 18.

as *Oidium* sp., Hopkins (1930) 524.

Oidium only:

on **Dodonaea viscosa** Linn., Salisbury (Rh. 542).

Uncinula combreticola Doidge

Doidge (1948a) 844.

on **Combretum Zeyheri** Sond., Nelspruit, *Doidge*, 22377 Type; Ledzee, *Doidge*, 1793.

Uncinula Eylesii Doidge

Doidge (1948a) 844.

on **Acalypha ciliata** Forsk., Salisbury, *Eyles 2071*, 13992, Type.

Uncinula incrassata Salm.

Salmon (1908) 525; Sacc. Syll. Fung. XXII: 22; Hopkins (1943) 188; Doidge (1948a) 845.

Uncinula Pterocarpi Doidge (1915) 240; van der Byl (1926 c) 285; Sacc. Syll. Fung. XXIV: 224.

on **Pterocarpus rotundifolius** (Sond.) Druce, northern Transvaal, *Doidge*, 1805; Mazoe, *Hopkins* (Rh. 4122) 34271; Zona River, Jihu, *Swynnerton*.

Uncinula necator (Schw.) Burr.

Doidge (1915) 240; van der Byl (1922 d) 284; Hopkins (1938 a) 101, (1939 a) 49; Cardoso (1937) 152, (1938) 74.

Oidium Tuckeri Berk., Verwoerd (1929 b) 13, (1931 a) 299; Doidge & Bottomley, (1931) 28; Hopkins (1938 a) 120; Cardoso (1939) 45, (1945) 155.

Oidium only:

on **Vitis vinifera** Linn., Rondebosch, 273: Pretoria, 282; Johannesburg, 306; Stellenbosch, *Buller*, 6608, *Verwoerd* (Stell. 396), *v. d. Byl*; Bloemfontein, *Verwoerd*; Salisbury

(Rh. 407, 486, 1187, 2177, 2102, 2105, 2549, 2553) ; Selukwe, *Hopkins* (Rh. 2118) ; Sul do Save, *Cardoso* ; Lourenço Marques, *Meirim* ; very common throughout South Africa.

Uncinula polychaeta (Berk. & Curt.) ex Ellis

Doidge (1915) 240, (1948 a) 845 ; van der Byl (1926 c) 285 ; Doidge & Bottomley (1931) 67.

on **Celtis Kraussiana** Bernh., Fountains, *v. d. Byl*, 2096, 2202, *Pole Evans*, 2336, 2361 ; Garstfontein, *Pienaar*, 1260 ; Zoutpansberg, *Burtt Davy*, 181 : Irene, *Pole Evans*, 32739 ; Fountains Valley, *Bottomley*, 34418.

MELIOLACEAE.

Amazonia asterinoides (Wint.) Theiss.

Doidge & Sydow (1928) 427 ; Doidge (1942 a) 325.

Meliolaster Mackenzii Doidge (1920 d) 123.

on **Piper capensis** Linn. f., Buccleuch, *Doidge*, 11570 ; Woodbush, *Doidge*, 17731, 28347.

Balladyna leonensis Syd.

on **Oxyanthus Gerrardi** Sond., Woodbush, *Doidge*, 1758 a.

Balladyna tenuis Hansf.

Hansford (1946 b) 154

on **Canthium Gueinzii** Sond., Woodbush, *Doidge*, 17740 a.

Balladyna ugandensis Syd.

Hansford (1946 b) 154.

on **Canthium ciliatum** O. Kze., Komgha, *E. P. Phillips*, 14150 ; Pirie Forest, *Doidge*, 22428 ; Alexandria, *Doidge*, 22355 ; Isipingo, *Wager*, 33104 ; Stella Bush, *Bottomley*, 11375 ; Howieson's Poort, *Doidge*, 10968 ; Kentani, *Pegler*, 9127 : Xumeni Forest, *Doidge*, 33501.

Canthium spinosum O. Kze., Durban, *Wager*, 32167 ; Stella Bush, *Doidge*, 1675 ; Bluff, Durban, *Morgan & Doidge*, 32167 ; Woodville Forest, *Doidge*, 10956 a.

Canthium sp., Stella Bush, *Schilz*, 14701.

Oxyanthus Gerrardi Sond., Woodbush, *Doidge*, 17723.

Randia rudis E. Mey., Pirie Forest, *Doidge*, 12271.

Balladyna velutina (Berk. & Curt.) v. Höhn.

Theissen (1912 b) 16 ; Doidge (1917) 715 ; van der Byl (1926 c) 286 ; Nel (1942) 10 ; Hansford (1946 b) 154.

Asterina phaeostroma Cooke (1882 a) 130.

Asterella phaeostroma (Cooke) Sacc. Syll. Fung. IX : 396.

Meliola Psilostomae Thuem., von Thuemen (1877) 408.

Dimerosporium Psilostomatis (Thuem.) Sacc. Syll. Fung. I : 54.

Dimerium Psilostomatis (Theum.) Sacc. Syll. Fung. XVII : 537 ; Doidge (1917) 719.

Phaeodimeriella Psilostomatis (Theum.) Theissen (1912) a 46.

on **Canthium ciliatum** O. Kze., Boschberg, *MacOwan 1291* (Thuem. Myc. Univ. 775 ; Rabenh. Fung. Eur. 2753 ; S.A.M. 33498) 20772, 20773 ; near Mont-aux-Sources, *Doidge*, 23403 b ; Howieson's Poort, *Doidge*, 12385 ; Kentani, *Pegler 2326*, Kew.

Canthium Gueinzii Sond., Haenertsburg, *Doidge*, 17773 ; Woodbush, *Doidge*, 1744, 28327 ; Claridge, *Doidge*, 8991.

Canthium spinosum O. Kze., Woodbush, *Doidge*, 28465.

Canthium sp., Woodbush, *Doidge*, 28330.
Kraussia floribunda Sond., Umgeni, *Doidge*, 8981.
Pavetta Bowkeri Harv., East London, *Doidge*, 12426 ; Isipingo, *Doidge*, 6634.
Pavetta capensis (Houtt.) Bremek., Grahamstown, *Britten*, 14214, 14215.
Pavetta lanceolata Eckl., Woodville Forest, *Doidge*, 10966 ; Alexandria, *Doidge*, 22364 ; Amanzimtoti, *Doidge*, 1637 a ; Stutterheim, *Laughton*, 33518.
Pavetta natalensis Sond., Inanda, *Medley Wood 656*, 9511, Kew ; Table Mt., Natal, *Doidge*, 14948.
Pavetta revoluta Hochst., Isipingo, *Doidge*, 6627 ; Port Alfred, *Britten*, 21008 ; Durban, *v. d. Byl 743*.
Pavetta suluensis Bremek., Cavendish, *Wager*, 33317.
Pavetta spp., Rikatli, *Junod*, 11612 ; Natal, *Medley Wood 589*, 823 ; Woodbush, *Doidge*, 1768 ; Kentani, *Pegler*, 8895.
Tarenna sp., St. Lucia Lake, *Gerstner*, 35299.
Tricalysia lanceolata (Sond.) Burtt Davy, Umhlanga, *Medley Wood 652*, 331, 10190, Kew ; Umgeni, *Doidge*, 8981 ; Stella Bush, *Doidge*, 2523.
Tricalysia sp., False Bay, Zululand, *Gerstner*, 35289.
Rubiaceae undet., Van Stadens Pass, *Doidge*, 10886.

Balladynastrum glabrum Hansf.

Hansford (1946 b) 157.
on **Canthium ciliatum** O. Kze., near Mont-aux-Sources, *Doidge*, 23403 a.
Canthium Gueinzii Sond., Lemana, *Doidge*, 1744 a ; Claridge, *Doidge*, 8991 a ; Buccleuch, *Doidge*, 11573 ; Winters Kloof, *Doidge*, 12446 ; Woodbush, *Doidge*, 17740 b.
Pavetta lanceolata Ecklon, Amanzimtoti, *Doidge*, 1637 b.

Irene atra Doidge

Doidge (1920 e) 40 ; Doidge & Sydow (1928) 434.
Meliola atra Doidge (1920 f) 137.
Irenina atra (Doidge) Stevens (1927) 466.
on **Eugenia zuluensis** Dümmer, Zwartkop, *Doidge*, 11594, 12436 Type ; Xumeni Forest, *Morgan & Doidge* 29839, 32234 ; Gala Bush, *Doidge*, 33166.

Irene calostroma (Desm.) v. Höhn.

Doidge & Sydow (1928) 429 ; Doidge & Bottomley (1931) 13, 54 ; Nel (1942) 18 ; Stevens (1927) 423.
Meliola Puiggarii Speg., Doidge (1919 a) 195--197 ; van der Byl (1926 c) 286.
Irene Puiggarii (Speg.) Doidge (1920 e) 39.
Appendiculella calostroma (Desm.) v. Höhn., van der Byl (1926 c) 287.
as *Meliola manca* Ell. & Mart., Doidge (1917) 723, (1919 a) 196 ; J. Phillips (1931) 58.
on **Cliffortia ferruginea** Linn. f., van Staden's Pass, *Doidge*, 10861.
Cliffortia strobilifera Murr., Van Staden's Pass, *Doidge*, 10859, *Pole Evans*, 11442.
Leucosidea sericea E. & Z., Nottingham Road, *v. d. Byl 342*, 11357 ; Tugela Valley near Mont-aux-Sources, *Doidge*, 14130 ; Xumeni Forest, *Doidge*, 27746 ; Marwaqa Forest, *Doidge*, 30902 ; Durban, *McClean*, 31023, 32302.
Pygeum africanum Hk. f., Woodbush, *Doidge*, 1761.
Rubus pinnatus Willd., Woodbush, *Doidge*, 1771 ; Knysna, *Pienaar*, 2425, v. d. Byl, 2277 ; Buccleuch, *Sim*, 10150 ; Pirie Forest, *Doidge*, 12278 ; Deepwalls, *Bottomley*, 32225 ; Storms River, *Doidge*, 17185 ; Xumeni Forest, *Morgan & Doidge*, 30376.
Rubus rigidus Sm., Inanda, *Medley Wood 566*, 9503, 10360, Kew.
Rubus rosaefolius Sm., Northern Transvaal, *v. d. Byl*.
Rubus transvaalensis C. E. Gust, Woodbush, *Doidge*, 17735.

Irene ditricha (Kalchbr. & Cooke) Doidge

Doidge (1920 e) 41 ; Doidge & Sydow (1928) 433 ; Doidge & Bottomly (1931) 19.
Asterina ditricha Kalchbrenner & Cooke (1880) 32 ; Sacc. Syll. Fung. I : 50 ; Theissen (1912 b) 15.
Meliola ditricha (Kalchbr. & Cooke) Doidge (1917) 728, (1920 f) 138.
Irenina ditricha (Doidge) Stevens (1927) 467.
on **Gymnosporia** spp., Inanda, *Medley Wood 3*, Type, 11518 ; Buccleuch, *Doidge*, 11579.
Pleurostylia capensis Oliv., Van Staden's Pass, *Doidge*, 10883.

Irene Ekebergiae Doidge

Doidge (1941 b) 193.
on **Ekebergia pterophylla** Hofmeyr, Lydenburg, *Keet*, 25909, Type.

Irene glabra (Berk. & Curt.) Doidge

Doidge (1920 e) 41 ; Doidge & Sydow (1928) 436.
Meliola glabra Berk. & Curt., Doidge (1917) 729 ; van der Byl (1926 c) 286.
Irenina glabra (Berk. & Curt.) Stevens (1927) 461.
on **Canthium** sp., Woodbush, *Doidge*, 1780.
Pavetta sp., Woodbush, *Doidge*, 1834.
Tricalysia lanceolata (Sond.) Burtt Davy, Van Staden's Pass, *Doidge*, 10871.
Rubiaceae undet., Langholm Estates, *Doidge*, 12367.

Irene gloriosa Doidge

Doidge (1920 e) 40 ; Stevens (1927) 422 ; Doidge & Sydow (1928) 430.
Meliola gloriosa Doidge (1920 f) 139.
on **Gymnosporia cordata** Sm., Buccleuch, *Doidge*, 11565, Type.

Irene implicata Doidge

Doidge (1924 a) 206 ; Doidge & Sydow (1928) 434.
Irenina implicata (Doidge) Stevens (1927) 465.
on **Chilianthus arboreus** A. DC., Van Staden's Pass, *Doidge*, 17251 Type ; Deepwalls, *J. Phillips*, 20345 ; Pirie Forest, *Doidge*, 22403 ; Gala Bush, *Doidge*, 33162.

Irene inermis (Kalchbr. & Cooke) Theiss. & Syd.

Theissen & Sydow (1917 b) 461 ; Doidge & Sydow (1928) 432 ; Nel (1942) 18.
Meliola quinquespora Thuem., von Thuemen (1876 b) 568 ; Sacc. Syll. Fung. 69.
Meliola inermis Kalchbrenner & Cooke (1880) 34 ; Gaillard (1892) 64 ; Sacc. Syll. Fung. I : 64 ; Doidge (1916) 730 ; van der Byl (1926 c) 286.
on **Buddleia auriculata** Benth., Boschberg, *MacOwan 1251*, Type (Thuem. Myc. Univ. 657 ; Rabenh. Wint. Fung. Eur. 2752 ; S.A.M. 33495) 20776, 21961, Kew ; Nottingham Road, *v. d. Byl 38, 598*, 11358, 31845 ; Pirie Forest, *Doidge*, 12327 ; Langholm Estates, *Doidge*. 12354 ; Woodbush, *Doidge*, 17764 ; Bulwer, *Haygarth*, 7790, *Doidge*, 30901 ; Xumeni Forest, *Doidge*, 27745.
Buddleia pulchella N.E. Br., Inanda, *Medley Wood 570*, 9501, 10355, Kew ; Amanzimtoti, *Doidge*, 1571 ; Buccleuch, *Doidge*, 11568 ; Zwartkop, *Doidge*, 11602.
Buddleia salvifolia Lam., Woodbush, *Doidge*, 1742, 17765, 28332 ; Buccleuch, *Sim*, 10146 ; Nottingham Road, *v. d. Byl 1531*, 11356, 31838 ; Mont-aux-Sources, *Doidge*, 14127 ; Deepwalls, *Doidge*, 17211, *Bottomley*, 32224 ; Long Ridge, *Doidge*, 17229.
Chilianthus dysophyllus Benth., Buccleuch, *Doidge*, 11583.

Irene natalensis Doidge

Doidge (1920 e) 40 ; Stevens (1927) 422 ; Doidge & Sydow (1928) 429.
Meliola natalensis Doidge (1917) 724 ; Sacc. Syll. Fung. XXIV : 358.
Meliola natalensis vars. *laxa* and *conferta* Doidge (1917) 724.
Irene natalensis vars. *laxa* and *conferta* (Doidge) Stevens (1927) 422.
Meliola conferta Doidge (1917) 724 ; Sacc. Syll. Fung. XXIV : 355.
sub *Meliola Sapindacearum* Speg., P. Sydow (1899 a) (132).
on **Dovyalis rhamnoides** Harv., near Durban, *Medley Wood*, 345, 9509, 9523, *v. d. Byl 36* ; Umgeni Beach, *Pole Evans*, 2412, *Doidge*, 8980, Type ; Hilton Road, *Doidge*, 11608 ; Langholm Estates, *Doidge*, 12347 ; Karkloof, *Doidge*, 14950 ; The Wilderness, *Doidge*, 17118 ; Van Staden's Pass, *Doidge*, 17256 ; East London, *Doidge*, 12429 ; Alexandria, *Doidge*, 22365 ; Xumeni Forest, *Doidge*, 32219 ; Caradoc's Bush, Knysna, *Laughton*, 32266 ; Knysna, *Laughton*, 32249 ; Isipingo, *Doidge*, 32412, *Wager*, 33101 ; Umhlanga Rocks, *Wager*, 32779.
Dovyalis rotundifolia Harv., Kowie, *Doidge*, 12363, *Britten*, 14222.
Scolopia Mundtii Warb., Louis Trichardt, *V. A. Putterill*, 11827 ; Haenertsburg, *Doidge*, 17772 ; Woodbush, *Doidge*, 17758.

Irene Nuxiae Syd.

Doidge & Sydow (1928) 433, 463 ; Doidge & Bottomley (1931) 65 ; Nel (1942) 19.
sub *Meliola Heudeloti* Gaill., Doidge (1917) 728 ; van der Byl (1925 b) 19, (1926 c) 286 ; J. Phillips (1931) 158.
sub *Irene Heudeloti* (Gaill.) Doidge (1920 e) 40.
sub *Irenina Heudeloti* (Gaill.) Stevens (1927) 459.
on **Lachnopylis floribunda** (Benth.) C. A. Sm., Woodbush, *Doidge*, 1776, 17745, *v. d. Byl 1518* ; Van Staden's Pass, *Bottomley*, 9554, *Doidge*, 10874, 17261, *Pole Evans*, 11441 ; Woodville Forest, *Doidge*, 10942 ; Louis Trichardt, *V. A. Putterill*, 11837 ; Buccleuch, *Doidge*, 11571 ; Pirie Forest, *Doidge*, 12284, 22402 ; Karkloof, *Doidge*, 14944 ; Storms River, *Doidge*, 17181 ; Keurkloof Forest, *Doidge*, 17107 ; Deepwalls, *Doidge*, 17212, *Bottomley*, 32120, 32227 ; Entabene, *Wager*, 26373, *Bosman*, 26139 ; Knysna, *v. d. Byl 401*, *1338*, *Verwoerd* (Stell. 158) ; The Downs, *Renny*, 33156.
Lachnopylis tomentosa (Sond.) C. A. Sm., Woodbush, *Doidge*, 1746, 17743.

Irene Peddieae Doidge

Doidge (1927 b) 235 ; Doidge & Sydow (1928) 431.
on **Peddiea africana** Harv., Louis Trichardt, *V. A. Putterill*, 11840 ; Woodbush, *Doidge*, 17777, Type, *K. M. Putterill*, 32465 ; Xumeni Forest, *Doidge*, 27744.

Irene Peglerae Doidge

Doidge (1920 e) 40 ; Doidge & Sydow (1928) 434 ; Stevens (1927) 427.
Meliola Peglerae D idge (1917) 730 ; Pole Evans & Bottomley (1918) 186 ; Sacc. Syll. Fung. XXIV : 345.
on **Anastrabe integerrima** E. Mey., Kentani, *Pegler 1883*, Type, 2363, Kew ; Umgeni, *Medley Wood*, 9036 ; Nkwaleni Valley, *McClean*, 33090.
Bowkeria cymosa MacOwan, Rooiwal, *Bosman*, 30288.
Bowkeria triphylla Harv., Buccleuch, *Doidge*, 11572.
Halleria elliptica Linn., Woodville Forest, *Doidge*, 10932.
Halleria lucida Linn., Keurkloof Forest, *Doidge*, 17116 ; Storms River, *Doidge*, 17182 ; Deepwalls, *Doidge*, 17200, *Bottomley*, 32118, 32226.

Irene Podocarpi Doidge

Doidge (1920 e) 40 : Doidge & Sydow (1928) 431 : Doidge & Bottomley (1931) 69.
Meliola Podocarpi Doidge (1917) 725 : van der Byl (1926 c) 286 ; Sacc. Syll. Fung. XXIV : 278.

on **Podocarpus falcatus** R. Br., Fort Cunynghame, *D.F.O.*, 8897 : Pirie Forest, *Doidge*, 12322, 22424 ; Storms River, *Doidge*, 17166 : Deepwalls, *Doidge*, 17217 ; Karkloof, *Doidge*, 14967 ; Buccleuch, *Doidge*, 11561.

Podocarpus gracilior Pilg., Woodbush, *Doidge*, 1822.

Podocarpus Henkelii Stapf. Buccleuch, *Doidge*, 11552 ; Xumeni Forest, *Morgan & Doidge*, 29842, 32216, 33108.

Podocarpus latifolius R.Br., Woodbush, *Gray*, 889, *Doidge*, 1748. Type, *Morgan & Doidge*, 30466 : Tabankulu, *Fraser*, 8889, *D.F.O.*, 9102 : Duncairn, *Doidge*, 14960, 14968 ; Mariepskop, *Scott*, 34037.

Irene Rinoreae Doidge

Doidge (1922 a) 80 ; Doidge & Sydow (1928) 432.
Irenina Rinoreae (Doidge) Stevens (1927) 468.

on **Rinorea natalensis** Engl., Winter's Kloof, *Doidge*, 12445 ; Karkloof, *Doidge*, 14961, Type, 14969 ; Buccleuch, *Doidge*, 9704.

Irene scabra Doidge

Doidge (1920 e) 40 : Doidge & Sydow (1928) 435 ; Nel (1942) 19.
Meliola scabra Doidge (1919 a) 194.
Irenina scabra (Doidge) Stevens (1927) 464.

on **Trichocladus crinitus** Pers., Woodville Forest, *Doidge*, 10939 : Izelini Forest, *Emmett* 9064 and 11611 ; Deepwalls, *J. Phillips*, 20382, *Bottomley*, 32210 ; Knysna, *v. d. By*, *2222*, *2286*.

Trichocladus ellipticus E. & Z., Tabankulu, *Fraser*, 8891 ; Brander's High Forest, *v. d. Byl*, 9462 ; Hogsback, *Henderson*, 11338, *K. M. Putterill*, 30086 : Pirie Forest, *Doidge*, 12298 ; Langholm Estates, *Doidge*, 12343 ; Stutterheim, *Laughton*, 33542.

Irene speciosa Doidge

Doidge (1920 e) 40 ; Doidge & Sydow (1928) 428.
Meliola speciosa Doidge (1917) 726 ; van der Byl (1926 c) 286 ; Sacc. Syll. Fung. XXIV : 276.

on **Gymnosporia** sp., Woodbush, *Doidge*, 1740, Type.

Irene Strophanthi Doidge

Doidge (1920 e) 41 ; Doidge & Sydow (1928) 436.
Meliola Strophanthi Doidge (1917) 729, 745 ; Sacc. Syll. Fung. XXIV : 267 ; van der Byl (1926 c) 286.
Irenina Strophanthi (Doidge) Stevens (1927) 460.

on **Strophanthus speciosus** Reber, Woodbush, *Doidge*, 1781, Type, 17717, 28334 : Buccleuch, *Doidge* 9702 ; Xumeni Forest, *Morgan & Doidge*, 29827, 32215, 33169 ; Hlinza Forest, *D.F.O.*, 30294.

Irene Zeyheri Doidge

Doidge (1922 a) 75 ; Doidge & Sydow (1928) 435.
Irenina Zeyheri (Doidge) Stevens (1927) 467.

on **Eugenia Zeyheri** Harv., Kentani, *Pegler 2327*, 9126, Kew ; van Staden's Pass, *Doidge*, 10878, 17264 ; Pirie Forest, *Doidge*, 12272, 22401 ; Howieson's Poort, *Doidge*, 12377, 12388. Type ; Fern Kloof, Grahamstown, *Britten*, 14211 ; Mtunzini, *Laughton*, 33548.

Meliola acanthacearum Hansf.

Hansford (1946 b) 183.
sub *Meliola Psychotriae* Earle, Doidge & Sydow (1928) 459.
on **Rhinacanthus communis** Nees, Town Bush Valley, *Doidge*, 9721.

Meliola Acridocarpi Doidge

Doidge (1941 b) 194.
on **Acridocarpus natalitius** Juss., Oribi Gorge, *McClean*, 31054.

Meliola Allophyli Doidge

Doidge & Sydow (1928) 443, 463 (erronee *M. Allophylli*).
on **Allophylus erosus** Radlk., East London, *Doidge*, 12404 ; Kowie, *Britten*, 21009, Type ; Isipingo, *Wager*, 33083.

Meliola Apodytis v. d. Byl

van der Byl (1928 b) 185 ; Nel (1942) 19.
on **Apodytes dimidiata** E. Mey., Knysna, *v. d. Byl 2491*, Type.

Meliola arcuata Doidge

Doidge (1917) 737 ; Pole Evans & Bottomley (1918) 186 ; Sacc. Syll. Fung. XXIV : 311 : Doidge & Sydow (1928) 446 ; Stevens (1928) 217.
on **Viscum anceps** E. Mey., Kentani, *Pegler 1881*, *1949*, 2364, Type, 8389.

Meliola argentina Speg.

Doidge & Sydow (1928) 441.
on **Cladium Mariscus** R.Br., Knysna, *J. Phillips*, 20399.

Meliola Atalayae Doidge

Doidge (1948 a) 846.
on **Atalaya natalensis** R. A. Dyer, Ngomi Forest, *Joubert*, 33912, Type.

Meliola Azimae Doidge

Doidge & Sydow (1928) 450, 464.
on **Azima tetracantha** Lam., East London, *Doidge*, 22387, Type.

Meliola Behniae Syd.

Doidge & Sydow (1928) 444, 464.
sub *Meliola dracaenicola* Pat. & Har., Doidge (1922 a) 72 ; Stevens (1928) 184.
on **Behnia reticulata** F. Didrichs, Northern Transvaal, *Doidge*, 1779 ; Louis Trichardt, *V. A. Putterill*, 11848, Type ; Duncairn, *Doidge*, 14955 ; Woodbush, *Doidge*, 28466 ; Entabene, *Laughton*, 33599.

Meliola bifida Cooke.

Cooke (1880 b) 15 ; Doidge (1917) 738 : Doidge & Sydow (1928) 444 : Stevens (1928) 178 ; Sacc. Syll. Fung. I : 62.
on **Osyridicarpos natalensis** A.DC., Springfield, *Medley Wood*, 9020, Type, Kew ; Pirie Forest, *Doidge*, 12326 : Winters Kloof, *Doidge*, 12443 ; Karkloof, *Doidge*, 14956 ; Kentani, *Pegler 1945*, Kew ; Highbury, *Doidge*, 33168.

Meliola Bosciae Doidge.

Doidge (1917) 731, 745 ; Doidge & Sydow (1928) 439 ; Nel (1942) 19. Sacc. Syll. Fung. XXIV : 275.

Meliola kentaniensis Doidge (1920 b) 113.

Irenopsis Bosciae (Doidge) Stevens (1927) 435.

on **Capparis tomentosa** Lam., Rikatli, *Junod*, 11730.

Maerua racemulosa (A.P.D.C.) Gilg. & Ben., Winkle Spruit, *Doidge*, 2510, Type; Durban, *Lansdell*, 9016, *v. d. Byl 39*, 11350, *Bottomley*, 11373, *Morgan & Doidge*, 32158 ; Umgeni, *Medley Wood*, 9024 ; Stella Bush, *v. d. Byl*, 31923 ; Umkomaas, *Bottomley*, 11880 ; Pirie Forest, *Doidge*, 12321, 22392 ; Howieson's Poort, *Doidge*, 12389 ; East London, *Doidge*, 12406, 22394 ; The Wilderness, *Doidge*, 17124 ; Kentani, *Pegler 2392*, 9539 ; Amabele, *Mogg*, 31002.

? **Maerua** sp., Kentani, *Pegler*, 9130.

Meliola buxicola Doidge

Doidge & Sydow (1928) 452, 465 ; Doidge & Bottomley (1931) 16.

on **Buxus MacOwani** Oliv., East London, *Doidge*, 12400, 22388.

Meliola campylotricha Syd.

H. Sydow (1924 c) 420 ; Doidge & Sydow (1928) 438 ; Doidge & Bottomley (1931) 68 ; Stevens (1928) 167 ; van der Byl (1926 c) 286 ; Nel (1942) 19 ; Doidge (1948 a) 847.

on **Apodytes dimidiata** E. Mey., Woodbush, *v. d. Byl 1515*, Type.

Cassinopsis tinifolia Harv., Eshowe, *Laughton*, 33511.

Meliola capensis (Kalchbr. & Cooke) Theiss.

Theissen (1912 b) 19 ; Doidge (1917) 731, (1922 a) 71 ; Doidge & Sydow (1928) 442 ; Stevens (1928) 205 ; Nel (1942) 19.

Asterina capensis Kalchbrenner & Cooke (1880) 32 ; Sacc. Syll. Fung. I : 41.

sub *Meliola amphritricha* Fr., Kalchbrenner (1882 a) 147.

on **Hippobromus pauciflorus** (L.) Radlk., Boschberg, *MacOwan 1328*, Type, 20854, Kew ; Durban, *Medley Wood 57*, 9519, Kew ; Winkle Spruit, *Pole Evans*, 1402, *Doidge*, 2499 ; Inanda, *Medley Wood 57*, 10354, Kew ; Verulam, 6805 ; Tongaat, *v. d. Byl*, 6953 ; Umgeni, *Medley Wood*, 9034 ; Stella Bush, *v. d. Byl 349*, 11355, 31962, *Schilz*, 14700 ; near Mont-aux-Sources, *Bottomley*, 23407 ; Umkomaas, *Bottomley*, 11888 ; Kentani, *Pegler 1956*, 8391, 8849, Kew ; Van Staden's Pass, *Doidge*, 10882 ; Howieson's Poort, *Doidge*, 10969, 12378 ; Langholm Estates, *Doidge*, 12342 ; Elands Hoek, *Bottomley*, 15525 ; Sidbury, *Daly*, 21994 ; Nkwaleni Valley, *McClean*, 33087.

Meliola capnodioides Thuem.

von Thuemen (1876 b) 568 ; Sacc. Syll. Fung. I : 61 ; Doidge (1948 a) 847.

sub *Meliola amphitricha* Fr., Kalchbrenner (1882 a) 147 ; Gaillard (1892) 77.

Meliola microspora Pat. et Gaill. var. *africana* Doidge (1917) 732.

sub *Meliola Psychotriae* Earle, Doidge & Sydow (1928) 459 ; Stevens (1928) 246.

on **Plectranthus ciliatus** E. Mey., Grahamstown, *MacOwan 1259*, Type, 20799 ; Inanda, *Medley Wood 604*, 10350, Kew ; Umzinto Bush, *Wager*, 32697.

Plectranthus spp., Buccleuch, *Doidge*, 11576 ; Inanda, *Medley Wood*, 10353 ; Woodbush, *Doidge*, 1766.

Stachys aethiopica Linn., Xumeni Forest, *Morgan & Doidge*, 29895.

Stachys spp., Kat River Valley, *Moore*, 21027 ; Xumeni Forest, *Doidge*, 33110.

Labiatae undet., Woodbush, *Doidge*, 17768.

Meliola Carissae Doidge

Doidge (1922 a) 72 ; Doidge & Sydow (1928) 456.
on **Carissa bispinosa** (L.) Desf., Kentani, *Pegler*, 9129 ; Van Staden's Pass, *Doidge*, 10870 ; Pirie Forest, *Doidge*, 12296, 22397 ; Langholm Estates, *Doidge*, 12341 ; Kowie, *Doidge*, 12361 ; East London, *Doidge*, 12408 ; Storms River, *Doidge*, 17189 ; Alexandria, *Doidge*, 22352 ; Caradoc's Bush, Knysna, *Bottomley*, 32264 ; Knysna, *Bottomley*, 32240 ; Stella Bush, *Schilz*, 14702.

Meliola Choristylidis Doidge

Doidge (1927 b) 236 ; Doidge & Sydow (1928) 445 ; Stevens (1928) 178.
on **Choristylis rhamnoides** Harv., Woodbush, *Doidge*, 17733, Type ; Northern Ravine, Rooiwal, *Bosman*, 30287.

Meliola cladophila Syd.

H. Sydow (1924 c) 421 ; Doidge & Sydow (1928) 447 ; Stevens (1928) 214 ; van der Byl (1926 c) 286 ; Doidge & Bottomley (1931) 68 ; Nel (1942) 19.
on **Apodytes dimidiata** E. Mey., Woodbush, *v. d. Byl 1661*, Type.

Meliola claviculata Doidge

Doidge (1920 b) 113 ; Doidge & Sydow (1928) 440.
Irenopsis claviculata (Doidge) Stevens (1927) 440.
on **Oncoba** sp., Quelimane, *Pole Evans*, 7388, Type.

Meliola Cluytiae v. d. Byl

van der Byl (1926 c) 283 ; Nel (1942) 19.
on **Cluytia pulchella** Linn., Knysna, *v. d. Byl 2317*, Type.

Meliola Cnestidis Doidge

Doidge & Sydow (1928) 453, 465.
on **Cnestis natalensis** Planch. & Sond., Kentani, *Pegler*, 9076, 9527, Type ; Springfield, *Medley Wood 620*, 9035, Kew.

Meliola comata Doidge

Doidge (1920 b) 111, (1924 a) 208, 215 ; Doidge & Sydow (1928) 440 ; J. Phillips (1931) 158, Nel (1942) 108.
Meliola Zehneriae van der Byl (1926 b) 283 ; Nel (1942) 20.
Irenopsis comata (Doidge) Stevens (1927) 437.
Irenopsis Zehneriae (v. d. Byl) Stevens (1927) 436.
on **Pyrenacantha scandens** Planch., Woodville Forest, *Doidge*, 11020, Type ; Deepwalls, *Doidge*, 17208, *J. Phillips*, 21003, *v. d. Byl 2238* ; Storms River, *Doidge* 17192 ; Bluff, Durban, *Morgan & Doidge*, 32159 ; Knysna, *v. d. Byl 2307*.

Meliola Cryptocaryae Doidge

Doidge (1920) 112 ; Doidge & Sydow (1928) 456 ; Stevens (1928) 284 ; Doidge & Bottomley (1931) 69 ; Nel (1942) 19.
Meliola celtidicola van der Byl (1926 b) 283 ; Stevens (1928) 258.
on **Cryptocarya latifolia** Sond., Umbilo, *v. d. Byl 343, 346, 517*, 11016, Type, 31791 ; Stella Bush, *v. d. Byl 518*, 11352, 31792.
Cryptocarya transvaalensis Burtt Davy, Haenertsburg, *Doidge*, 17775 ; Woodbush, *Doidge*, 28325.

Cryptocarya Woodii Engl., Mayville, *Medley Wood*, 9025 ; Zwartkop, *Doidge*, 11603 ; East London, *Doidge*, 12410 ; Winter's Kloof, *Doidge*, 12442 ; Table Mt., Natal, *Doidge*, 14949 ; Pirie Forest, *Doidge* 22430.
Cryptocarya sp., Durban, *v. d. Byl 910*, 23371 ; Xumeni Forest, *Doidge*, 33157.

Meliola cylindripoda Doidge

Doidge (1920 f) 138 ; Doidge & Sydow (1928) 461 ; Stevens (1928) 279.
on **Eugenia zuluensis** Dummer, Zwartkop, *Doidge*, 11596, Type, 12437 ; Karkloof, *Doidge*, 14943 ; Xumeni Forest, *Morgan & Doidge*, 28960, 29836, 32233 ; Gala Bush, *Doidge*, 33165 ; Umzinto, *Wager*, 32682.

Meliola dactylipoda Syd.

Doidge & Sydow (1928) 460, 465 ; Hopkins (1938 a) 101, (1939 a) 15.
on **Cryptocarya transvaalensis** Burtt Davy, Invanza, *Eyles*, 15518.
Cryptocarya Woodii Engl., Duncairn, *Doidge*, 14953, Type.

Meliola Doidgeae Syd.

Doidge & Sydow (1928) 457, 465 ; Nel (1942) 19.
sub *Meliola amphitricha* Fr., Doidge (1917) 733.
on **Deinbollia oblongifolia** Radlk., Stella Bush, *Doidge*, 1572, Type, 2520. *Franks*, 9504 ; *v. d. Byl*, 31929, 32452, 32453 ; Durban, *Franks*, 8404, *v. d. Byl 341* ; Umkomaas, *Bottomley*, 11896 ; Bluff, Durban, *Schilz*, 14703, *Morgan & Doidge*, 32160 ; Isipingo, *Wager*, 33082 ; Rikatli, *Junod*, 11727.

Meliola Dummeri Hansf. var. **brachyodonta** Hansf.

Hansford (1946 b) 181.
Meliola geniculata Syd. & Butler var. *macrospora* Doidge (1920 a) 109.
Meliola brachyodonta Syd., Doidge & Sydow (1928) 442.
on **Rhus tomentosa** Linn., van Staden's Pass, *Doidge*, 10879.

Meliola Evansii Doidge

Doidge (1920 b) 112 ; Doidge & Sydow (1928) 438 ; Stevens (1928) 168 ; J. Phillips (1931) 158 ; Nel (1942) 19.
on **Cassine capensis** Linn., Knysna, *J. Phillips*.
Cassine croceum O. Ktze., Knysna, *J. Phillips*.
Cassine eucleaeformis O. Ktze., Woodbush, *O'Connor* (10222, in phanerogamic Herb.) ; Knysna, *Keet*, 32790.
Cassine papillosa O. Ktze., Deepwalls, *Doidge*, 17216.
Gymnosporia acuminata Szysz., Knysna, *v. d. Byl*, *2299*, *2303*, *2493*.
Gymnosporia albata Sim., Kentani, *Pegler*, 8392.
Pterocelastrus tricuspidatus Sond., Qudeni Forest, *Davis*, 11237 ; Deepwalls, *Doidge*, 17206 ; Knysna, *J. Phillips*, 20346.

Meliola Excoecariae Doidge

Doidge (1920 f) 139 ; Doidge & Sydow (1928) 453 ; Stevens (1928) 284.
on **Sapium Simii** O. Ktze., Buccleuch, *Doidge*, 11566.

Meliola furcillata Doidge

Doidge (1917) 736, (1920 f) 139 ; Doidge & Sydow (1928) 443 ; Stevens (1928) 210 ; Sacc. Syll. Fung. XXIV : 325.

on **Allophylus melanocarpa** (Arn.) Radlk., Town Bush Valley, *Doidge*, 9716 ; Isipingo, *Wager*, 32411.

Allophylus monophyllus Radlk., Haenertsburg, 404 ; Amanzimtoti, *Doidge*, 1573 ; Claridge, *Doidge*, 8993 ; Buccleuch, *J. M. Sim*, 10148, *Doidge*, 11577 ; Duncairn, *Doidge*, 14951 ; Eshowe, *Laughton*, 33532.

Meliola ganglifera Kalchbr.

Kalchbrenner & Cooke (1880) 34 ; Sacc. Syll. Fung. I : 70 : Gaillard (1892) 40 ; Pole Evans (1906 a) 133 ; Doidge (1917) 727 ; Doidge & Sydow (1928) 439 ; Stevens (1928) 168 ; van der Byl (1925 b) 191, (1926 c) 286 ; Doidge & Bottomley (1931) 10 ; J. Phillips (1931) 158 ; Nel (1942) 19.

on **Curtisea faginea** Ait., Somerset East, *MacOwan 1349*, Kew ; Izelini Forest, *Emmett*, 9063, *Doidge*, 11609 ; Kentani, *Pegler 2304*, 9160, Kew ; Hogsback, *v. d. Byl*, 9457 ; Pirie Forest, *Doidge*, 12292, 22399 ; Howieson's Poort, *Doidge*, 12380 ; Storms River, *Doidge*, 17180 ; Deepwalls, *Doidge*, 17213, *Bottomley*, 32121, 32229 ; Knysna, *Laughton*, 32414, *Verwoerd* (Stell. 160), *v. d. Byl 1922*, *2270*, *2271*, *1377* ; Woodville Forest, *Sim*, 11852, *Doidge*, 12292, 22399 ; Zwartkop, *Doidge*, 11601 ; Woodbush, *Burtt Davy*, 134, *Doidge*, 29927, *v. d. Byl 1504* ; Entabene, *Wager*, 26370 ; Stutterheim, *Laughton*, 33530.

Meliola gemellipoda Doidge

Doidge (1922 a) 80 ; Doidge & Sydow (1928) 450 ; Doidge & Bottomley (1931) 69.

on **Jasminum angulare** Vahl, Langholm Estates, *Doidge*, 12352, Type ; Alexandria, *Doidge*, 22366.

Jasminum pubescens Willd., Bluff, Durban, *Morgan & Doidge*, 32161.

Meliola Goniomae Doidge

Doidge & Sydow (1928) 461 ; Doidge & Bottomley (1931) 32 ; Nel (1942) 20.

Amazonia Goniomae Doidge (1924 a) 204.

on **Gonioma Camassi** (E. & Z.) E. Mey., Van Staden's Pass, *Bottomley*, 9561 ; Woodville Forest, *Doidge*, 10938 ; Keurkloof Forest, *Doidge*, 17109 ; Deepwalls, *Doidge*, 17209 Type, *Bottomley*, 32122 ; Knysna, *v. d. Byl 2268*, *2293* ; Storms River, *Doidge*, 17230 ; Assegai Bush, *Doidge*, 17235 ; Caradoc's Bush, *Bottomley & Laughton*, 32208 ; Xumeni Forest, *Doidge*, 31075 ; East London, *Wood*, 20999 ; Blauwkrantz, *Britten*, 21010.

Meliola Hippocrateae Doidge

Doidge (1948 a) 849.

on **Hippocratea Schlechteri** Loes., Karkloof, *Doidge*, 14971, Type.

Meliola Impatientis Doidge

Doidge (1941 b) 196.

on **Impatiens Duthieae** L. Bolus, Woodbush, *Morgan & Doidge*, 28348.

Meliola Indigoferae Syd.

Doidge & Sydow (1928) 451, 466.

sub *Meliola malacotricha* Speg., Doidge (1920 a) 108 ; Stevens (1928) 227 ; Nel (1942) 20.

on **Indigofera natalensis** Bolus, Buccleuch, *Doidge*, 9703, 11560, Type, *J. M. Sim*, 10144.

Leguminosae undet., Rikatli, *Junod*, 11733.

Meliola jasminicola P. Henn.

Doidge (1941 b) 197.
on **Jasminum streptopus** E. Mey., Springfield, *Medley Wood*, 31050.

Meliola Knowltoniae Doidge

Doidge (1924 a) 208 ; Doidge & Sydow (1928) 461 ; Stevens (1928) 260.
on **Knowltonia vesicatoria** Sims., Storms River, *Doidge*, 17177.

Meliola Knysnae Doidge

Doidge (1948 a) 850.
on **Ilex mitis** (L.) Radlk., Deepwalls, *Doidge*, 17210 a, Type ; Knysna, *Laughton*, 34289.

Meliola leptidea Syd.

H. & P. Sydow (1912 a) 38 ; Doidge (1917) 739 ; Sacc. Syll. Fung. XXIV : 270 ; Doidge & Sydow (1928) 445 ; Stevens (1928) 180 ; van der Byl (1926 c) 286 ; Doidge & Bottomley (1931) 15.
on **Cussonia spicata** Thunb., Woodbush, *Legat*, 405, Type, Kew, *Doidge*, 1774, 17759.

Meliola littoralis Syd.

Doidge & Sydow (1928) 462, 466 ; Doidge & Bottomley (1931) 15 ; Nel (1942) 20.
sub *Meliola amphitricha* Fr., Doidge (1917) 733 ; van der Byl (1926 c) 286 ; J. Phillips (1931) 158 ; Nel (1942) 19.
on **Burchellia bubalina** (L. f.) Sims, Inanda, *Medley Wood 653*, 9502, 10352, Kew.
Canthium ciliatum O. Ktze., Grahamstown, *Britten*, 12188 ; Hogsback, *Henderson*, 11346, *K. M. Putterill*, 30074 ; Pirie Forest, *Doidge*, 22429 ; Hlabini Forest, *Doidge*, 29822.
Canthium Gueinzii Sond., Buccleuch, *Doidge*, 11575.
Canthium Mundtianum Cham. & Schl., Knysna, *Bottomley*, 32228.
Canthium spinosum O. Ktze., Howieson's Poort, *Doidge*, 10965 ; Woodbush, *Doidge*, 28329.
Canthium spp., Grahamstown, *Britten*, 14224 ; Keurkloof Forest, *Doidge*, 17108 ; Storms River, *Doidge*, 17178 ; Deepwalls, *Doidge*, 17196, Type ; Van Staden's Pass, *Doidge*, 17255.
Gardenia globosa Hochst., Kentani, *Pegler 1858*, 2214, Kew ; Winkle Spruit, *Doidge*, 9013, 9014 ; Umgeni, *Medley Wood*, 9038 ; Durban, *v. d. Byl 40, 348.*
Gardenia Neuberia E. & Z., East London, *Doidge*, 10907.
Gardenia Rothmannia Linn. f., Louis Trichardt, *V. A. Putterill*, 11830 ; Umkomaas, *Bottomley*, 11895 ; Haenertsburg, *v. d. Byl 1509.*
Pavetta Bowkeri Harv., Krantzkloof, *v. d. Byl*, 8377,
Psychotria capensis Vatke, Louis Trichardt, *V. A. Putterill*, 11826 ; Umkomaas, *Bottomley*, 11891 ; Bluff, Durban, *Morgan & Doidge*, 32162, 32163 ; Amanzimtoti, *Doidge*, 1575 ; Stella Bush, *Doidge*, 2521 ; Kentani, *Pegler*, 2366 ; Durban, *v. d. Byl 345* ; Winkle Spruit, *v. d. Byl*, 31971.
Tricalysia capensis Meisn., Winter's Kloof, *Doidge*, 12441.

Meliola Loxostylidis Doidge

Doidge (1920 b) 114 ; Doidge & Sydow (1928) 456 ; Stevens (1928) 279.
on **Loxostylis alata** Spreng., Paddock, *v. d. Byl*, 8376 ; Van Staden's Pass, *Doidge*, 10921, Type ; Howieson's Poort, *Doidge*, 10970 ; Mayville, *Medley Wood*, 9026.

Meliola Merrillii Syd.

Doidge & Sydow (1928) 445 ; Stevens (1928) 181.
Meliola varia Doidge (1926) 738 ; v. d. Byl (1926 c) 286 ; Sacc. Syll. Fung. XXIV : 353.
on **Rhoicissus rhomboideus** (E. Mey.) Planch., Winter's Kloof, *Doidge*, 1639 ; Buccleuch, *J. M. Sim*, 10145, *Leighton*, 11554 ; Pirie Forest, *Doidge*, 12319, 22393 ; Woodbush, *Doidge*, 17730, 28344, *v. d. Byl 1659* ; Town Bush Valley, *Doidge*, 9717.

Meliola microthecia Thuem.

von Thuemen (1876 b) 569 ; Sacc. Syll. Fung. I : 68 ; Doidge (1917) 734.
Meliola Thuemeniana Stevens (1928) 259, 295.
on **Barosma scoparia** E. & Z., nr. Grahamstown, *MacOwan 1260*, Type (Thuem. Myc. Univ. 851) 20798, 21960, Kew ; Dohne Peak, *Galpin*, 21001 ; Grahamstown, *Dyer*, 21000.

Meliola Ochnae Doidge

Doidge (1920 f) 141 ; Doidge & Sydow (1928) 452 ; Stevens (1928) 277.
on **Ochna natalitia** Engl. & Gilg., Winters Kloof, *Doidge*, 8989 ; Buccleuch, *J. M. Sim*, 10143, *Doidge*, 11567, Type ; Bluff, Durban, *Morgan & Doidge*, 32164.
Ochna O'Connorii Phillips, Woodbush, *Doidge*, 17742.

Meliola oleicola Doidge

Doidge (1922 a) 73 ; Doidge & Sydow (1928) 458 ; Stevens (1928) 276 ; Doidge & Bottomley (1931) 31 ; J. Phillips (1931) 158.
on **Olea capensis** Linn., Pirie Forest, *Doidge*, 12331, 12332 ; Storms River, *Doidge*, 17232.
Olea foveolata E. Mey., Langholm Estates, *Doidge*, 12351 ; Kowie, *Doidge*, 12364, *Britten*, 14218 ; East London, *Doidge*, 22395 ; Caradoc's Bush, *Bottomley*, 32269.
Olea laurifolia Lam., Woodbush, *Doidge*, 1767, 1835 ; Tabankulu, 9103 ; Woodville Forest, *Doidge*, 10937 ; Howieson's Poort, *Doidge*, 10967 ; Buccleuch, *Doidge*, 11557, Type ; Assegai Bush. *Doidge*, 17236 ; Alexandria, *Doidge*, 22363 ; Stutterheim, *Laughton*, 33537 ; Mariepskop, *Scott*, 34043.
Olea Peglerae C. H. Wright, Kentani, *Pegler 1948*, 8382, 8785, Kew.
Olea sp., Alexandria, *Doidge*, 22390.

Var. **Jasmini,** Doidge

Doidge (1941 b) 198.
on **Jasminum streptopus** E. Mey., Durban, *Bottomley*, 11379, Type.

Meliola Oncinotidis Doidge

Doidge (1948 a) 851.
on **Oncinotis inandensis** Wood & Evans, Zululand, *Gerstner*, 33509, Type ; Buccleuch, *Doidge*, 9722.

Meliola Osyridis Doidge

Doidge & Sydow (1928) 462, 466.
sub *Meliola polytricha* Kalchbrenner & Cooke (1880) 34 ; Gaillard (1892) 92.
on **Osyris abyssinica** Hochst., nr. Grahamstown, *MacOwan 1256*, 20771, Kew ; Natal, *Medley Wood 448*, 10359 ; Grahamstown, *Doidge*, 10954, Type, *Britten*, 12187.
Rhoiocarpus capensis A.DC., Van Staden's Pass, *Doidge*, 10866, 17253 ; Howieson's Poort, *Doidge*, 10962, 12374 ; Langholm Estates, *Doidge*, 12349 ; Grahamstown, *Hansford*, 33480.

Meliola palmicola Wint.

Doidge & Sydow (1928) 443 ; Stevens (1928) 110 ; Doidge & Bottomley (1931) 45.
on **Phoenix reclinata** Jacq., Port Shepstone, *Pole Evans*, 5607 ; Kentani, *Pegler 2372*, 9170, Kew ; Umtentwini, *Porter*, 32681.

Meliola Panici Earle

Doidge (1922 a) 74 ; Doidge & Sydow (1928) 455 ; Stevens (1928) 261.
on **Stipa Dregeana** Steud. var. **elongata**, Langholm Estates, *Doidge*, 12358 ; Alexandria, *Doidge*, 22345 ; Xumeni Forest, *Morgan & Doidge*, 29828, 32212 ; Highbury, *Doidge*, 33167.

Meliola peddieicola Hansf.

Hansford (1946 b) ; Doidge (1948 a) 853.
on **Peddiea africana** Harv., Woodbush, *K. M. Putterill*, 32465 e.

Meliola peltata Doidge

Doidge (1917) 727 ; Sacc. Syll. Fung. XXIV : 277 ; Doidge & Sydow (1928) 437 ; Stevens (1928) 167 ; van der Byl (1925 b) 192 ; Doidge & Bottomley (1931) 69 ; J. Phillips (1931) 158 ; Nel (1943) 20
on **Podocarpus falcatus** R.Br., Deepwalls, *Doidge*, 17218.
Podocarpus Henkelii Stapf, Buccleuch, *Doidge*, 11551 ; Xumeni Forest, *Morgan & Doidge*, 32217.
Podocarpus latifolius R.Br., Knysna, *Pienaar*, 2436, *v. d. Byl 408, 2295* ; Woodville Forest, *Doidge*, 10934 ; Woodbush, *Morgan & Doidge*, 30465.

Meliola perpusilla Syd. var. **congoensis** Beeli

Doidge (1941 b) 198.
on **Secamone frutescens** Decne., Karkloof, *Doidge*, 14958.

Meliola petiolaris Doidge

Doidge (1920 f) 142 ; Doidge & Sydow (1928) 447 ; Stevens (1928) 216 ; Doidge & Bottomley (1931) 31.
on **Olea capensis** Linn., Storms River, *Doidge*, 17173 a.
Olea laurifolia Lam., Buccleuch, *Doidge*, 11558, Type.

Meliola polytricha Kalchbr. & Cooke

Cooke (1879 b) 72 ; Sacc. Syll. Fung. I : 67 ; Doidge (1917) 735 ; Doidge & Sydow (1928) 458 ; Stevens (1928) 274.
on **Pittosporum viridiflorum** Sim., Inanda, *Medley Wood 222*, 10358 ; Claridge, *Doidge*, 8996, 14945 ; Pirie Forest, *Doidge*, 22400 ; Stutterheim, *Laughton*, 33531.

Meliola Popowiae Doidge

Doidge (1920 f) 142 ; Doidge & Stevens (1928) 460 ; Stevens (1928) 242.
on **Popowia caffra** (Sond.) Hk. f. & Thoms., Kentani, *Pegler*, 8882 ; Winter's Kloof, *Doidge*, 8990, 12435 ; Buccleuch, *Doidge*, 11587 ; Hilton Road, *Doidge*, 11607.

Meliola Psychotriae Earle

Doidge & Sydow (1928) 459 ; Stevens (1928) 246 ; Doidge (194–).
Meliola microspora Pat. & Gaill. var. *africana* Doidge (1917) 732.
on **Galopina circaeoides** Thunb., Woodbush, *Doidge*, 1760, 17752, 29926 ; Pirie Forest, *Doidge*, 12323 ; Deepwalls, *Bottomley*, 32214.

Meliola Ptaeroxyli Doidge

Doidge (1941 b) 199.

on **Ptaeroxylon obliquum** (Thunb.) Radlk., Marwaqa, *Morgan & Doidge*, 30899, Type.

Meliola rhoina Doidge

Doidge & Sydow (1928) 454, 466 ; Doidge (1941 b) 201 ; Nel (1942) 20.

sub *Meliola Rhois* P. Henn., Doidge (1917) 733 ; van der Byl (1925 b) 192 ; Stevens (1928) 284 ; J. Phillips (1931) 158.

Meliola Rhois var. *tenuis* Doidge (1917) 733.

on **Harpephyllum caffrum** Bernh., East London, *Doidge*, 10926 ; Howieson's Poort, *Doidge* 10958 ; Pirie Forest, *Doidge*, 12269, 22396 ; Eshowe, *Laughton*, 33529.

Rhus crenata Thunb., Verulam, *Pole Evans*, 6804 ; Mayville, *Medley Wood*, 9032.

Rhus Gueinzii Sond., East London, *Doidge*, 12428.

Rhus longispina E. & Z., Despatch, *Doidge*, 1239, Type ; Langholm Estates, *Doidge*, 12348 ; Kowie, *Doidge*, 12360, *Britten*, 14217 ; Port Alfred, *Britten*, 14216.

Rhus Mac Owani Schonl., Alexandria, *Doidge*, 22372.

Rhus mucronata Thunb. var. **villosa**, Stella Bush, *Doidge*, 2519 ; Buccleuch, *Doidge*, 11590 ; Umkomaas, *Bottomley*, 11892.

Rhus natalensis Bernh., East London, *Doidge*, 22389 ; Isipingo, *Wager*, 33084.

Rhus refracta E. & Z., Langholm Estates, *Doidge*, 12371 ; Kowie, *Britten*, 14220 ; Van Staden's Pass, *Doidge*, 17250.

Rhus sp., Keurbooms River, *v. d. Byl 1335*.

Meliola rigida Doidge

Doidge (1917) 736, 747 ; Sacc. Syll. Fung. XXIV : 291 ; Doidge & Sydow (1928) 452 ; Stevens (1928) 230 ; van der Byl (1926 c) 286 ; Nel (1942) 20.

on **Xymalos monospora** Baill., Woodbush, *Doidge*, 1775, Type ; Winter's Kloof, *Doidge*, 1667, 8988, 12444 ; Buccleuch, *Doidge*, 11578, *Pole Evans*, 8894 ; Zwartkop, *Doidge*, 11599 ; Tabankulu, *Fraser*, 8890 ; Louis Trichardt, *V. A. Putterill*, 11841 ; Haenertsburg, *Doidge*, 17720 ; Rikatli, *Junod*, 11614 ; Woodbush, *v. d. Byl 1532, 1663*.

Meliola Scolopiae Doidge

Doidge & Sydow (1928) 437, 467.

on **Scolopia Zeyheri** (Szysz.) Nees, Table Mt., Natal, *Doidge*, 14959 ; Pirie Forest, *Doidge*, 12277, 22421, Type ; Mossel Bay, *Pole Evans*, 9067 ; Hogsback, *K. M. Putterill*, 30083 ; Kentani, *Pegler*, 8393.

Scolopia Mundtii Warb., Highbury, *Doidge*, 33158.

Scolopia sp., Entabene, *Laughton*, 33314.

Meliola sinuosa Doidge

Doidge (1917) 735, 746 ; Sacc. Syll. Fung. XXIV : 320 ; Doidge & Sydow (1928) 455 ; Stevens (1928) 283 ; van der Byl (1926 c) 286 ; Doidge & Bottomley (1931) 40 ; Nel (1942) 20.

on **Trichilia emetica** Vahl, Lemana, *Doidge*, 1783 ; Woodbush, *Doidge*, 17771, *v. d. Byl 1542* ; Kentani, *Pegler 1971*, 8786, Kew.

Meliola Toddaliae Doidge

Doidge (1917) 732, (1942 a) 209 ; Sacc. Syll. Fung. XXIV : 340 ; Doidge & Sydow (1928) 449 ; Stevens (1928) 230 ; Doidge & Bottomley (1931) 33, 67 ; Nel (1942) 20.

on **Fagara capensis** Thunb., Pirie Forest, *Doidge*, 12275 ; Winter's Kloof, *Doidge*, 12440 ; Alexandria, *Doidge*, 22351.

Fagara Davyi Verdoorn, Knysna, *Keet*, 15531 ; Harkerville Forest, *J. Phillips*, 21002 30277 ; Xumeni Forest, *Morgan & Doidge*, 32213.

Fagara magalismontana Engl., Haenertsburg, *Doidge*, 17774.

Teclea natalensis Engl., Pirie Forest, *Doidge*, 12287 ; Alexandria, *Doidge*, 22353.

Vepris lanceolata G. Don., Kentani, *Pegler 1960 a*, 8788, Kew ; Van Staden's Pass, *Doidge*, 10860, 17260 ; Pirie Forest, *Doidge*, 12324, 22391 ; East London, *Doidge*, 12418, *Bartel* (v. d. Byl 2432) ; Storms River, *Keet & Laughton*, 34293 ; The Wilderness, *Doidge*, 17113 ; Henley, *Doidge*, 8999 ; Stella Bush, *v. d. Byl 34, 347*, 11353, 31961, *Bottomley*, 11374, *Moonsamy*, 32010 ; Buccleuch, *Doidge*, 11564 ; Umkomaas, *Bottomley*, 11881 ; Karkloof, *Doidge*, 14954 ; Xumeni Forest, *Doidge*, 27742, 32279 ; Louis Trichardt, *V. A. Putterill*, 11842 ; Maritzburg, *Verwoerd* (Stell. 175).

Meliola torta Doidge

Doidge (1917) 726, 744, (1919 a) 193 ; Sacc. Syll. Fung. XXIV : 296 ; Doidge & Sydow (1928) 457 ; Stevens (1928) 283.

on **Trichocladus crinitus** Pers., Izelini Forest, *Emmett*, 9064, Type, *Doidge*, 11610 ; Woodville Forest, *Doidge*, 10939 ; Storms River, *Doidge*, 17170 ; Deepwalls, *Doidge*, 17195 ; Knysna, *Bottomley*, 32232.

Meliola transvaalensis Doidge

Doidge (1927 b) 238 ; Doidge & Sydow (1928) 451 ; Stevens (1928) 229.

on **Myrsine africana** Linn., Woodbush, *Doidge*, 17746, Type ; *Morgan & Doidge*, 30485 ; Entabene, *Bosman*, 26138 ; Insikeni, *Kotze*, 22434.

Meliola Woodiana Sacc.

P. Sydow (1899) (132) ; Sacc. Syll. Fung. XVI : 415 ; Doidge (1917) 737 ; Doidge & Sydow (1928) 446 ; Stevens (1928) 258 ; Doidge & Bottomley (1931) 33.

Meliola falcata Syd., H. & P. Sydow (1912 a) 37 ; Sacc. Syll. Fung. XXIV : 334 ; Doidge (1916) 736 ; van der Byl (1925 b) 191 ; J. Phillips (1931) 158 ; Nel (1942) 19.

on **Canthium ciliatum** O. Kze., Woodville Forest, *Doidge*, 10936 ; Xumeni Forest, *Doidge*, 33500.

Canthium Mundtianum Cham. & Schl., Umkomaas, *Bottomley*, 11883 ; Knysna, *v. d. Byl 366*.

Canthium spinosum O. Kze., Mayville, *Medley Wood*, 9030 ; Woodville Forest, *Doidge*, 10956 ; Grahamstown, *Britten*, 12189 ; Howieson's Poort, *Doidge*, 12390 ; Keurkloof Forest, *Doidge*, 17119.

Canthium ventosum O. Kze., Durban, *Medley Wood 6467*, 9508, Type ; ? Inanda, *Medley Wood 637*, Kew ; Durban, *Pole Evans*, 1591 ; *v. d. Byl 344*, 11359, 31933, *Bottomley*, 11385 ; Bluff, Durban, *Morgan & Doidge*, 32165 ; Phoenix, *Wager*, 33098, 33102 ; Tongaat, *v. d. Byl*, 6952 ; Winkle Spruit, *Doidge*, 9005 ; Springfield, *Medley Wood*, 9017 ; Kentani, *Pegler 2325*, 9128, Kew ; Van Staden's Pass, *Doidge*, 10881, 17257 ; Witklip, Port Elizabeth, *v. d. Byl* 2492 ; East London, *Doidge*, 10920 ; Umkomaas, *Bottomley*, 11882, 11890 ; Pirie Forest, *Doidge*, 12290, 22398 ; Keurkloof Forest; *Doidge*, 17110 ; Deepwalls, *Doidge*, 17219 ; Grootrivier, Knysna, *v. d. Byl 2275*, Amanzimtoti, *Doidge*, 1577 ; Stella Bush, *Bottomley*, 11383 ; Mariepskop, *Scott*, 34038.

Canthium spp., Woodbush, *Doidge*, 28333 ; nr. Suurbraak, Swellendam District, *v. d. Byl*,

Meliola xumenensis Doidge

Doidge (1941 b) 200.

on **Jasminum streptopus** E. Mey., Xumeni Forest, *Morgan & Doidge*, 29897.

Meliola sp. (near **M. capnodioides** Thuem.)

sub *Meliola Psychotriae* Earle, Doidge & Sydow (1928) 459 ; Stevens (1928) 246 ; Doidge (1948).

on **Barleria obtusa** Nees, Amanzimtoti, *Doidge*, 6623.

Dicliptera clinopodia Nees, Woodbush, *Doidge*, 28342.

Hypoestes verticillaris R.Br., Woodbush, *Doidge*, 17749.

Isoglossa Woodii C.B.Cl., Stella Bush, *v. d. Byl*, 11351, 31297, *Bottomley*, 11377, *Wager*, 33195 ; Amanzimtoti, *Doidge* 1578.

Isoglossa spp., Woodbush, *Doidge*, 28336 ; Durban, *v. d. Byl 37*.

Justicia anagalloides T. Anders., Natal, *Medley Wood 22, 57, 241*, Kew as *M. amphitricha*.

Justicia Bowiei C.B.Cl., Alexandria, *Doidge*, 22368.

Meliola sp.

sub *Meliola Indigoferae* Syd., Doidge & Sydow (1928) 451.

on **Baphia Goosensi** de Wild., Durban, *v. d. Byl 340*, 11354 ; Sea View, *v. d. Byl*, 31960.

Meliola sp.

as *Meliola polytricha* Kalchbr. & Cooke (1880) 34 ; Gaillard (1892) 92.

on **Cunonia capensis** Linn., near Grahamstown, *MacOwan 1262*, (S.A.M. 35202), 20771, Kew

Parenglerula MacOwaniana (Thuem.) v. Höhn.

von Höhnel (1910 a) 465 ; Theissen & Sydow (1917) 470 ; Doidge (1924 a) 212, (1942) 326, 328 ; Petrak (1928) 404 ; J. Phillips (1931) 158 ; Nel (1942) 13 ; Hansford (1946 a) 26.

Meliola MacOwaniana Thuem., von Thuemen (1876 b) 569.

Asterina MacOwaniana Kalchbrenner & Cooke (1880) 33 ; Sacc. Syll. Fung. I : 41 ; P. Sydow (1899 a) 132.

Dimerosporium MacOwanianum (Thuem.) Sacc. Syll. Fung. I : 53.

Dimerosporium Gymnosporiae P. Hennings (1900 a) 3 ; Sacc. Syll. Fung. XVI : 408.

Dimerium MacOwanianum (Thuem.) Doidge (1917) 718 ; van der Byl (1925 b) 191 ; Nel (1942) 18.

Dimerium Gymnosporiae (P. Henn.) Syd., H. & P. Sydow (1909) 546 ; Doidge (1917) 719.

Englerulaster Gymnosporiae (P. Henn.) Theissen (1912 a) 51 ; Doidge (1920 g) 243 ; van der Byl (1925 b) 192 ; J. Phillips (1931) 159 ; Nel (1942) 17.

Englerulaster MacOwanianus (Thuem.) Arnaud (1918) 183.

Parenglerula Henningsii Petrak (1934) 404.

Parenglerula MacOwaniana (Thuem.) v. Höhn. var. *Elaeodendri* Werdemann (1923) 52 ; van der Byl (1925 b) 192.

on **Gymnosporia buxifolia** Szysz., Boschberg, *MacOwan 1250* (Thuem. Myc. Univ. 568 ; Roum. Fung. Gall. Exsicc. 4567 ; Rehm Ascom. 395 ; S.A.M. 33494) 20774, Kew ; Ashburton, *Doidge*, 9700 ; Isipingo, *Doidge*, 10154 ; Tugela Valley, near Mont aux Sources, *Doidge*, 14138 ; Zululand, *v. d. Byl 321* ; Bedford, *Doidge*, 10892 ; Grahamstown, Britten, 14213 ; Belmont Valley, *Doidge*, 10949 ; Lovedale, *Doidge*, 10973 ; Hogsback, *K. M. Putterill* 30078 ; East London, *Bartel* (v. d. Byl 2430) ; Storms River, *v. d. Byl 2498* ; Belvidere, Knysna, *Duthie* (Stell. 87 ; v. d. Byl 1176) ; Zuurbraak, Riversdale District, *Zahlbruckner* (Penther 2281).

Gymnosporia elliptica Davison, Assegai Bush, *Doidge*, 17246.

Gymnosporia nemorosa Szysz., Alexandria, *Doidge*, 22347.

Gymnosporia rubra Loes., Kentani, *Pegler 2336*, Kew.

Gymnosporia senegalensis Loes., Woodbush, *Doidge*, 17762 ; Umbelusi, *Howard*, 523, Kew.

Gymnosporia sp., Groot Rivier, Knysna, *v. d. Byl 1392* ; Hopefield, *v. d. Byl 1180*, Kew.

Cassine capensis Linn., Assegai Bush, *Doidge*, 17245 ; van Staden's Pass, *Doidge*, 10890, 10885.
Cassine Kraussianum Bernh., Knysna, *v. d. Byl 414, 2269, Bottomley*, 32116 ; Storms River, *Keet & Laughton*, 34291.
Cassine papillosa O. Ktze., Knysna, *v. d. Byl 2494.*
Putterlickia sp., near George, *v. d. Byl 417*, Kew.

Schiffnerula Cissi Hansf.

Hansford (1946 a) 28, (1946 b) 160.
? on **Rhoicissus cuneifolius** (E. & Z.) Planch., Claridge, *Doidge*, 8994.

Schiffnerula compositarum (Theiss.) Petrak.

on **Mikania capensis** DC., Storms River, *Doidge*, 17163 (det. Hansford).

Schiffnerula Doidgeae Hansf.

Hansford (1946 a) 29 (1946 b) 161.
on **Cynanchum ellipticum** (Harv.) R. A. Dyer, van Staden's Pass, *Doidge*, 10876, Type.
Secamone frutescens Decne., Lemana, *Doidge*, 1804 ; Pirie Forest, *Doidge*, 12320.
Tylophora Flanagani Schlecht., Lemana, *Doidge*, 1804 ; Woodbush, *Doidge* 28345.
Asclepiadaceae undet., Langholm Estates, *Doidge*, 12368.

Schiffnerula Gymnosporiae Hansf.

Hansford (1946 a) 28, (1946 b) 159.
on **Gymnosporia buxifolia** Szysz., Tugela Valley near Mont-aux-Sources, *Doidge*, 14138, Type ; Louis Trichardt, *V. A. Putterill*, 11851.
Gymnosporia nemorosa E. & Z., Forest Hall, Knysna, *Doidge*, 17228 ; van Staden's Pass, *Doidge*, 17262 ; Langholm Estates, *Doidge*, 12370.
Gymnosporia sp., Nottingham Road, *v. d. Byl*, 11365 ; Hogsback, *v. d. Byl*, 9459.

Schiffnerula Nuxiae Hansf.

Hansford (1946 a) 29, (1946 b) 161.
on **Lachnopylis** sp., Woodville Forest, *Doidge*, 10931, Type.

Schiffnerula radians (Syd.) Hansf.

Hansford (1946 a) 28.
Diathrypton radians Syd., H. Sydow (1924 c) 422 ; van der Byl (1925 b) 192 ; Doidge & Bottomley (1931) 554 ; J. Phillips (1931) 155.
on **Cunonia capensis** Linn., near Grahamstown, *MacOwan 1262*, Kew ; Knysna, *v. d. Byl 1370*, 32791, Type ; Deepwalls, *Doidge*, 17220, *Bottomley*, 32252 ; Montagu Pass, *Doidge*, 17129 ; Storms River, *Doidge*, 17186 ; Pirie Forest, *Doidge*, 12273 ; Knysna, *Bottomley*, 32791.

Schniffnerula Whitfieldiae Hansf.

Hansford (1946 b) 162.
on **Sclerochiton Harveyanus** Nees, Hogsback, *Henderson*, 11340 b.

Schiffnerula sp.

Hansford (1946 a) 28, (1946 b) 163.
on **Mimusops obovata** Sond., Pirie Forest, *Doidge*, 12266 ; Berea, Durban, *Morgan & Doidge*, 32168.

Schiffnerula sp.
Hansford (1946 a) 27, (1946 b) 163.
on **Peddiea africana** Harv., Xumeni Forest, *Doidge*, 27444 ; Gala Bush, *Doidge*, 33163.

Schiffnerula ? spp.
on **Pavetta Bowkeri** Harv., Kentani, *Pegler*, 9119.
Pavetta sp., Woodbush, *Doidge*, 1834.
Zizyphus mucronata Willd., Tzaneen, *Liebenberg*, 32725.

EUROTIACEAE.

Eurotium herbariorum (Wigg.) Link
Medley Wood (1898) 12.
on **Cephalanthus natalensis** Oliv., dead leaves, Natal, *Medley Wood 3920*, Kew.
on dead leaves of plants, undet., Transvaal, 833 ; Dalton Bridge, *Pentz*. 30972 ; Weenen, *Pentz*. 30973.
on **Parmelia hottentotta** Ach., South Africa, without locality, *Burchell*, Kew.

Monascus ruber van Tiegh.
Young (1930) 227, (1931) 499.
isolated from maize starch and maize silage, Johannesburg, *Young*.

Thielavia basicola Zopf
on **Nicotiana tabacum** Linn., Waterkloof, Rustenburg District, *Hean*, 30666 ; Oudtshoorn, *Naudé*, 27296, 27297 ; Kroondal, *Henning*, 27695 ; Waterval, Rustenburg, *Wager*, 28902.

SPHAERIALES.

SORDARIACEAE.

Delitschia bisporula (Crouan) Hansen
Cheesman (1909) 415.
on dung, Matopo Hills, *Cheesman*.

Delitschia sp.
Gibbs in Cheesman (1909) 415.
on dung of a large animal, Matopo Hills, *Cheesman*.

Pleurage Brassicae (Klotzsch) Kuntze.
on **Crotalaria juncea** Linn., dying stems, Brits, *Hean*, 32134.

Sordaria curvula de Bary
Cheesman (1909) 415.
on dung, Matopo Hills, *Cheesman*.

Sordaria pleiospora Wint.
Cheesman (1909) 415.
on dung, Matopo Hills, *Cheesman*.

Sordaria setosa Wint.
isolated from **Citrus sinensis** Osbeck, fruit, Fort Beaufort, *Wager*, 30784.

Sordaria sp. (*Sordaria anserina* Wint. affinis).

Cheesman (1909) 415.

on hippopotamus dung, Livingstone Island, *Cheesman.*

Sporormia ambigua Niessl.

Cheesman (1909) 416.

on dung, Matopo Hills, *Cheesman.*

Sporormia intermedia Auersw.

Cheesman (1909) 416.

on dung, Matopo Hills, *Cheesman.*

Sporormia minima Auersw.

isolated from **Citrus sinensis** Osbeck, from rind section from surface of sterilised orange. *Bates 286*, 34021 : from " pit mark " lesion on young Valencia late orange, *Bates 389*, 34022.

Sporormia pascua Niessl.

Cheesman (1909) 416.

on dung, Matopo Hills, *Cheesman.*

Sporormia transvaalensis Doidge

Doidge (1941 b) 210.

on cow dung, Kromrivier, *Doidge*, 30235.

SPHAERIACEAE.

Balladynella confusa (Doidge) Hansf.

Hansford (1946 a) 70.

Rizalia confusa Doidge (1924 a) 211 ; Nel (1942) 20.

Piline africana Syd., H. Sydow (1924 c) 422 ; J. Phillips (1931) 158 ; Nel (1942) 108.

on **Olea capensis** Linn., van Staden's Pass, *Pole Evans*, 11444 ; Storms River, *Doidge*, 17172 : Assegai Bush, *Doidge*, 17233 ; Knysna, *J. Phillips*, 20389, *v. d. Byl 2218*, *2292*.

Olea exasperata Jacq., Keurboom Forest, *v. d. Byl 1337*, 33506 ; Knysna *Otto* (Stell. 340) ; Brenton, Knysna, *Laughton*, 34295.

Olea laurifolia Lam., Pirie Forest, *Doidge*, 22410 ; Tabankulu, *D.F.O.*, 9103.

Olea Peglerae C. H. Wright, Kentani, *Pegler*, 9072.

Baumiella caespitosa P. Henn.

P. Hennings (1903) 165 ; Sacc. Syll. Fung. XVII : 708 ; von Höhnel, (1910 b) no. 618 ; Doidge (1941 b) 204.

Gibbera tinctoria Massee (1911) 226 ; Eyles (1915) 277, (1926) 642 ; Sacc. Syll. Fung XXIV : 923 ; Hopkins (1930) 528, (1938 a) 101.

on **Monotes dasyanthus** Gilg., Quiriri R., *Baum 727*, Kew.

Monotes glaber Sprague, Salisbury, *Eyles 1967*, 14006 ; Hunyani, *Allen* (Rh. 734) Kew.

Ceratosphaeria crinigera (Cooke) Sacc.

Doidge (1941 b) 208.

on rotting wood, Xumeni Forest, *Morgan & Doidge*, 30368.

Ceratostomella paradoxa Dade

see *Thielaviopsis paradoxa* (de Seynes) v. Höhn. ; the perfect stage of this fungus has not been observed in South Africa.

Ceratostomella pilifera (Fr.) Wint.

Laughton (1936) 377.
on logs, eastern Transvaal, *Laughton*.

Chaetodimerina Schiffnerulae Hansf.

Hansford (1946 a) 47.
on **Schiffnerula Gymnosporiae** on *Gymnospora nemorosa*, van Stadens Pass, *Doidge*, 17262, Type.

Chaetomium chartarum (Berk.) Wint.

Ascotricha chartarum Berk., Medley Wood (1898) 17.
on paper, Natal, *Medley Wood*.

Chaetomium elatum Kunze & Schum.

on underground mine timber, Durban Roodepoort Deep G.M. (T.R.L. 346, det. Baarn).

Chaetomium funicolum Cooke

isolated from mine timbers (chock mat) Durban Roodepoort Deep G.M. (T.R.L. 473 det. Baarn) 33292.

Chaetomium globosum Kunze

isolated from mine timbers (chock mat) Durban Roodepoort Deep G.M. (T.R.L. 255 det. Baarn) 33290.

Chaetomium indicum Corda

isolated from mine timbers (chock mat) Durban Roodepoort G.M. (T.R.L. 354, det. Baarn) 33291.

Chaetosphaeria insectivora Hansf.

on Coccidae undet., on *Trichocladus ellipticus*, Tabankulu, *Fraser*, 8891, det. Hansford.

Dimeriella annulata Syd.

H. & P. Sydow (1912 a) 36 : Doidge (1917) 717 ; Sacc. Syll. Fung. XXIV : 247 ; Hansford (1946 a) 42.
on **Gymnosporia** sp., Bandolier Kop, *Doidge*, 1832.

Dimeriella claviseta Doidge

Doidge (1917) 717, 742 ; Sacc. Syll. Fung. XXIV : 248 : Nel (1942) 18 ; Hansford (1946 a) 43.
on **Vernonia angulifolia** DC., Winkle Spruit, *Doidge*, 2511, 9011 : Congella, *v. d. Byl 198*, 11368.

Dimeriella Woodii Hansf.

Hansford (1946 a) 42, (1946 b) 187.
on **Loxostylis alata** Spreng., Mayville, *Medley Wood*, 9026 a.

Dimerina Osyridis (Wint.) Theiss.

Theissen (1912 a) 65.

Dimerosporium Osyridis Winter (1884 c) 265 ; Sacc. Syll. Fung. IX : 401 ; Doidge (1917) 716.

on **Osyris abyssinica** Hochst., Somerset East, *MacOwan 1256*.

Dimerina parasitica (Sacc.) Hansf.

Hansford (1946 a) 55.

Melanopsamma parasitica Sacc., P. Sydow (1899 a) (133) : Sacc. Syll. Fung. XVI : 488.

on **Meliola Woodiana** Sacc. on *Canthium ventosum*, Durban. *Medley Wood 6467*, 9474.
Irene Rinoreae Doidge on *Rinoria natalensis*, Karkloof, *Doidge*, 14969 b.

Dimerina verrucicola (Wint.) Theis.

Theissen (1912 a) 65.

Dimerosporium verrucicolum Winter (1885 b) 24 : Sacc. Syll. Fung. IX : 402.

on **Olea africana** Mill., Boschberg, *MacOwan* (Rabenh. Wint. Fung. Eur. 3652) Kew.

Dimerium africanum Hansf.

Hansford (1946 a) 80.

on **Asterina gerbericola** Doidge on *Gerbera cordata*, Knysna, *Bottomley*, 32137 b.
Irene calostroma (Desm.) v. Höhn. on *Leucosidea sericea*, Marwaqa Forest, Doidge, 30902 a.
Irene glabra (Berk. & Curt.) Doidge on *Pavetta* sp., Woodbush, *Doidge*, 1834.
Irene natalensis Doidge on *Dovyalis rhamnoides*, van Stadens Pass, *Doidge*, 17256 b.
Irene Nuxiae Syd. on *Lachnopylis floribunda*, Entabene, *Wager*, 26373 a.
Irene Peddieae Doidge on *Peddiea africana*, Woodbush, *K. M. Putterill*, 32465 d.
Meliola Bosciae Doidge on ? *Maerua* sp., Kentani, *Pegler*, 9130 a.
Meliola capensis (Kalchbr. & Cooke) Theiss. on *Hippobromus pauciflorus*, Winkle Spruit, *Pole Evans*, 1402 b.
Meliola comata Doidge on *Pyrenacantha scandens*, Woodville Forest, *Doidge*, 11020 c.
Meliola Goniomae Doidge on *Gonioma Camassi*, Deepwalls, *Bottomley*, 32122 c.
Meliola oleicola Doidge on *Olea foveolata*, Kowie, *Doidge*, 12364 b ; on *Olea laurifolia* Buccleuch, *Doidge*, 11557 a.
Meliola Osyridis Doidge on *Rhoiocarpus capensis*, Langholm Estates, *Doidge*, 12349 e.
Meliola rhoina Doidge on *Harpephyllum caffrum*, East London, Doidge, 10926 a ; Pirie Forest, *Doidge*, 12269 a ; on *Rhus MacOwani*, Alexandria, *Doidge*, 22372a ; on *Rhus mucronata* var. *villosa*, Umkomaas, *Bottomley*, 11892 a ; Buccleuch, *Doidge*, 11590 a.
Meliola Toddaliae Doidge on *Teclea natalensis*, Buccleuch, *Doidge*, 11564 c ; Alexandria, *Doidge*, 22353 c.
Meliola Woodiana Sacc., on *Canthium ventosum*, Winkle Spruit, *Doidge*, 9005 a.

Dimerium baccharidicolum (P. Henn.) Sacc.

Hansford (1946 a) 76.

Phaeostigme circumsedens Doidge (1924 a) 210.

on **Meliola peltata** Doidge on *Podocarpus falcatus*, Deepwalls, *Doidge*, 17218 c.
Schiffnerula compositarum (Theiss.) Petrak on *Mikania capensis*, Storms River, *Doidge*, 17163.

Dimerium Langloisii (Ell. & Everh.) Theiss.

Hansford (1946 a) 75.

on **Irene inermis** (Kalchbr. & Cooke) Theiss. & Syd. on *Buddleia salvifolia*, Buccleuch, *J. M. Sim*, 10146 a.

Dimerium leonense Hansf.

Hansford (1946 a) 79.

on **Meliola Merrillii** Syd. on *Rhoicissus rhomboidea*, Pirie Forest, *Doidge*, 22393 b.
Meliola Osyridis Doidge on *Rhoiocarpus capensis*, Howieson's Poort, *Doidge*, 12374 b.

Dimerium Lepidagathis (P. Henn.) Sacc.

Saccardo, Syll. Fung. XVII : 540.
Dimerosporium Lepidagathis P. Hennings (1903) 164 ; Theissen (1912 a) 57.
on **Lepidagathis microchila** Lind., between Longa River and Lazingua River, *Baum 831*.
Doubtful species.

Dimerium leptosporum Speg.

Hansford (1946 a) 76.
on **Asterina Hendersoni** Doidge on *Ilex mitis*, Woodbush, *Doidge*, 1753 a.
Meliola Popowiae Doidge on *Popowia caffra*, Winters Kloof, *Doidge*, 8990 a.

Dimerium minutum (Pat.) Sacc.

Hansford (1946 a) 73.
Dimerium intermedium Syd., H. & P. Sydow (1912 a) 37 ; Doidge (1917) 718 ; Sacc. Syll. Fung. XXIV : 253.
on **Meliola** sp. on *Isoglossa Woodii*, Amanzimtoti, *Doidge*, 1578.

Dimerium piceum (Berk. & Curt.) Theiss.

Hansford (1946 a) 74.
Dimerium myriadeum (Cooke) Theissen (1912 c) 193, (1912 a) 62.
Asterina myriadea Cooke (1882 a) 130 ; Sacc. Syll. Fung. IX : 389.
Dimerosporium sp., Cooke (1882 b) 37.
on **Asterina tertia** var. **africana** Doidge on *Hypoestes verticillaris*, van Staden's Pass, *Doidge* 10857.
Irene inermis (Kalchbr. & Cooke) Theiss. & Syd. on *Buddleia auriculata*, Marwaqa Forest, *Doidge*, 30901 b.
Irene Peglerae Doidge on *Halleria lucida*, Deepwalls, *Doidge*, 17200 d.
Meliola capnodioides Thuem., on *Stachys* sp., Kat River Valley, *Moore*, 21027 a.
Meliola Cryptocaryae Doidge on *Cryptocarya transvaalensis*, Woodbush, *Doidge*, 28325 b.
Meliola ganglifera Kalchbr. on *Curtisea faginea*, Woodville Forest, *Doidge*, 10933 a ; Storms River, *Doidge*, 17180 a ; Deepwalls, *Bottomley*, 32229 a.
Meliola Hippocrateae Doidge on *Hippocratea Schlechteri*, Karkloof, *Doidge*, 14971 a.
Meliola littoralis Syd., on *Gardenia globosa*, Umgeni, *Medley Wood*, 9038 b.
Meliola oleicola Doidge on *Olea foveolata*, Kowie, *Doidge*, 12364 a ; East London, *Doidge*, 22395 a.
Meliola Osyridis Doidge on *Rhoiocarpus capensis*, Howiesons Poort, *Doidge*, 10962 a, 12374 a ; Langholm Estates, *Doidge*, 12349 a ; van Staden's Pass, *Doidge*, 17253 a.
Meliola peltata Doidge on *Podocarpus falcatus*, Deepwalls, *Doidge*, 17218 a ; on *Podocarpus latifolius*, Knysna, *Pienaar*, 2436 a.
Meliola rhoina Doidge on *Harpephyllum caffrum*, Kentani, Pegler, 8851 a.
Meliola torta Doidge on *Trichocladus crinitus*, Deepwalls, *Doidge*, 17195 d.
Meliola Woodiana Sacc., on *Canthium spinosum*, Howiesons Poort, *Doidge*, 12390 a ; Keurkloof Forest, *Doidge*, 17119 a ; on *Canthium ventosum*, Keurkloof Forest, *Doidge*, 17110 b ; Deepwalls, *Doidge*, 17219 b ; van Staden's Pass, *Doidge*, 10881 a ; Durban, *Bottomley*, 11385 a.
Meliola sp. on *Isoglossa* sp., Woodbush, *Doidge*, 28336 a.
? **Asterina** sp. on *Royena villosa*. Inanda, *Medley Wood 601*, 11517, Kew.

Dimerium pulveraceum (Speg.) Theiss.

Hansford (1946 a) 74.
as *Dimerium intermedium* Syd., J. Phillips (1931) 158.
on **Asterina Streptocarpi** Doidge on *Streptocarpus Rexii*, Deepwalls, *Doidge*, 17223 b.
Irene Peglerae Doidge on *Halleria lucida*, Storms River, *Doidge*, 17182 b.

Dimerium subferrugineum Syd.

Hansford (1946 a) 79.
on **Meliola comata** Doidge on *Pyrenacantha scandens*, Deepwalls, *Doidge*, 17208 a.
Meliola Goniomae Doidge on *Gonioma camassi*, Xumeni Forest, *Doidge*, 31075 a.

Dimerosporiopsis Engleriana P. Henn.

Pazschke (1901) (173) ; Doidge (1941 b) 206 ; Hansford (1946 a) 63.
Dimerosporium Englerianum P. Hennings (1895 b) 327, (1895 c) 31, (1898) 295 ; Theissen (1912 a) 57.
Dimeriun Englerianum Saccardo & D. Saccardo, Syll. Fung. XVII : 537.
Aloysiellà ruwenzorensis Mattir. & Sacc., Mattirolo (1908) 143.
Otthia deformans Patouillard (1918) 90 ; H. & P. Sydow (1920 b) 181.
Gibbera Engleriana (P. Henn.) van der Byl (1928 a) 182 ; Nel (1942) 23.
? *Antennaria* (*Coleroa*) *Engleriana* (P. Henn.) von Höhnel (1910 b) No. 613, (1909) Nos. 356, 379 ; Rehm (1911) 5.
on **Erica Brownleeae** Bolus, Hogsback, *K. M. Putterill*, 34317.
Erica cristaeflora Salisb., Tulbagh, *Dippenaar* (Stell. 324, v. d. Byl 2486).
Erica holosericea Salisb., Swellendam, *Schlechter*.
Erica imbricata Linn., Klapmuts, *Acocks*, 27668.
Erica leucopelta Tausch., Knysna, *Bottomley*, 30729.
Erica obliqua Thunb., Koude Rivier, western Cape, *Schlechter*, 18326, Kew.
Erica peltata Andr., Knysna, *Bottomley*, 30730.
Erica spp., undet., Cape, *MacOwan* (Rabenh. Fung. Eur. 4260) Kew ; Hermanus, *Pole Evans* 27697, 27704; Tulbach, *Dippenaar*, (Stell.) 1325; Knysna, Laughton, Kew, *Verwoerd* (Stell. 335) ; Pniel, *Dippenaar* (Stell. 984).
Scyphogyne inconspicua Brogn., Hermanus, *Pole Evans*, 27703, *Louwrens*, 30731, 34318.

Englerula Macarangae P. Henn.

Hansford (1946 a) 83; Doidge (1948 a) 858.
on **Macaranga capensis** Sim, Eshowe, *Laughton*, 34112, 34207.

Eudarluca australis Speg.

Doidge (1941 b) 208 ; see also the conidial stage, *Darluca filum* (Biv.) Cast., the perfect stage is rare in South Africa.
on **Puccinia Eragrostidis-superbae** Doidge on *Eragrostis happula* var. *divaricata*, Derdepoort, *Doidge & Bottomley*, 29813 ; on *Eragrostis superba*, without locality, 14124.

Eudimeriolum Gymnosporiae Hansf.

Hansford (1946 a) 50.
on **Gymnosporia fasciculata** Loes., Nelspruit, *Doidge*, 32396, Type.
Gymnosporia sp., Nelspruit, *v. d. Byl*, 7077.

Fracchiaea heterogenea Sacc.

Hopkins (1938 a) 101, (1939 a) 38, (1939 c) 592.
on **Pyrus communis** Linn., branch, Umtali (Rh. 3431).
Pyrus malus Linn., branch, Inyanga (Rh. 3606).

Lasiosphaeria hispida (Tode) Fuck.

Doidge (1941 b) 209.
Lasiosphaeria capensis Kalchbrenner & Cooke (1880) 28 ; Sacc. Syll. Fung. II : 195.
on bark, Somerset East, *MacOwan 1397*, 20817, Kew.

Neopeckia Caesalpiniae Doidge

Doidge (1948 a) 857.
on **Caesalpinia sepiaria** Roxb., fallen branches, Town Bush Valley, *Doidge*, 34480.

Neopeckia rhodostoma Syd.

H. Sydow (1924 c) 435.
on dry wood, Woodbush, *v. d. Byl 1491.*

Phaeodimeriella Asterinarum (Speg.) Theiss.

Hansford (1946 a) 65.
Phaeodimeriella capensis Doidge (1917) 719 ; Sacc. Syll. Fung. XXIV : 258.
Chaetostigmella capensis Doidge (1924 a) 210.
on **Asterina Bottomleyae** Doidge on *Ilex mitis*, Buccleuch, *Doidge*, 11563 b.
Asterina Hendersoni Doidge on *Ilex mitis*, Knysna, *Pienaar*, 2426, Kew ; Buccleuch, *Doidge*, 11563 a.
Asterina Scolopiae Doidge on *Scolopia Zeyheri*, Hogsback, *K. M. Putterill*, 30084 b.

Phaeodimeriella Grewiae (Theiss.) Hansf.

Hansford (1946 a) 64.
Dimeriella Grewiae Theissen (1912 c) 189.
on **Asterina Grewiae** Cooke on *Trimeria grandifolia*, Inanda, *Medley Wood 639*, 12333.

Phaeodimeriella parvula (Cooke) Hansf.

Hansford (1946 a) 64.
Phaeodimeriella asterinicola Doidge (1920 b) 115.
Chaetostigmella asterinicola Doidge (1924 a) 210.
on **Asterina peraffinis** Speg. on *Tylophora Flanagani*, Branders High Forest, *v. d. Byl*, 9458 a.

Phaeodimeriella plumbea Doidge

Doidge (1924 a) 211 ; Hansford (1946 a) 67.
on **Asterina gerbericola** Doidge on *Gerbera cordata*, Storms River, *Doidge*, 17176 ; Deepwalls, *Bottomley*, 32123 a, 32127 a ; on *Gerbera piloselloides*, Deepwalls, *J. Phillips*, 20381 a.
Asterina africana (v. d. Byl) Doidge var. **Kiggelariae** Doidge on *Kiggelaria africana*, Storms River, *Doidge*, 17191 a.
Asterina tertia Rac. var. **africana** Doidge on *Hypoestes verticillaris*, van Stadens Pass, *Doidge*, 10857 a.

Phaeophragmeriella irenicola (Doidge) Hansf.

Hansford (1946 a) 95.
Perisporium irenicolum Doidge (1924 a) 209.
Meliolina irenicolum (Doidge) Stevens (1927) 416.
on **Irene Peglerae** Doidge on *Halleria lucida*, Deepwalls, *Doidge*, 17201, Type.

Phaeophragmeriella Meliolae (Stevens) Hansf.

Hansford (1946 a) 96.

? *Perisporium meliolicola* Doidge (1919 a) 195.

?on **Irene scabra** Doidge and **Meliola torta** Doidge on *Trichocladus crinitus*, Izelini Forest, 9064.

Phaeophragmeriella transvaalensis (Doidge) Hansf.

Hansford (1946 a) 97.

Zukalia transvaalensis Doidge (1917) 721.

Limacinia transvaalensis Doidge (1927 b) 240.

Chaetothyrium transvaalensis (Doidge) van der Byl (1926 c) 286.

on **Asterina Syzygii** Doidge on *Syzygium Gerrardi*, Woodbush, *Doidge*, 1759 a, 17756 a, 17757.

Philonectria ugandensis Hansf.

Hansford (1946 a) 102.

on **Meliola comata** Doidge on *Pyrenacantha scandens*, Storms River, Doidge, 17192 b.
Meliola Popowiae Doidge on *Popowia caffra*, Winters Kloof, *Doidge*, 12435 a.

Pilula straminea Mass.

Massee (1910 b) 252.

on cotton wool, Zomba,

Theissenula Woodiana Doidge

Doidge (1924 a) 212 ; H. Sydow (1926) 268 ; Hansford (1946 a) 92.

Zukalia Woodiana Doidge (1920 b) 114.

on **Gymnosporia albata** Linn., Winkle Spruit, *Doidge*, 9008 ; Durban, *Medley Wood*, 9061.

Trichosphaeria Vandae Verw. & du Pless.

Verwoerd & du Plessis (1933) 232.

on **Vanda tricolor** Lindl., Univ. Bot. Garden, Stellenbosch, *du Plessis*, (Stell. 610).

Tympanopsis euomphala (Berk. & Curt.) Starb.

Miller (1942) 259.

on **Hypoxylon rubiginosum** Pers. ex Fr. on *Mimusops Zeyheri*, Boschfontein, *Doidge & Bottomley*, 31069.

HYPOCREACEAE.

Allantonectria miltina (Mont.) Weese.

on **Agave americana** Linn., dying leaves, The Willows, *Doidge*, 33884.

Balansia Cynodontis Syd.

H. Sydow (1935) 234 ; Hopkins (1941) 1.

as *Balansia* sp., King (1918) 670 ; Hopkins (1943) 183.

on **Cynodon Dactylon** Linn., Hartebeestpoort, *Bottomley*, 23473 ; Donkerpoort, *Doidge & Bottomley*, 29993 ; Claremont, Pretoria, *Kresfelder*, 30489 ; Pretoria, *King*, 11007, *Bottomley*, 11329, 12833, 18158, *Mogg*, 15055, 24890 ; Aapies River nr. Prinshof, *Scott*, 34069 ; Buffelspoort, *Doidge*, 32787, *Turner*, 30488, *Doidge & Turner*, 29970, *Doidge & Bottomley*, 29988 ; Heidelberg, Transvaal, *Mogg*, 24349 ; Salisbury, Bulawayo, *Hopkins*.

Cynodon plectostachyum Pilg., Salisbury, *Hopkins*.

Cynodon transvaalensis Burtt Davy, Pretoria, *Bottomley*, 28618 ; Pyramids, *Mogg*, 28617.

Balansia Trachypogonis Doidge

Doidge (1948 a) 854.

on **Trachypogon plumosus** Nees, Kaalfontein, *Pole Evans*, 9543 b, 9435, 10082, 28581 ; Johannesburg, *Bottomley*, 26607.

Urelytrum squarrosum Hack., near old Standerton Road, *Pole Evans*, 8825.

?on**Andropogon amplectens** Nees, Meintjes Kop, *Mogg*, 25349.

Calonectria capensis Doidge

Doidge (1924 a) 218 ; Hansford (1946 a) 123.

on **Irene Podocarpi** Doidge on *Podocarpus falcatus*, Deepwalls, *Doidge*, 17217 b ; Storms River, *Doidge*, 17167, Type ; Pirie Forest, *Doidge*, 22425 ; on *Podocarpus gracilior*, Woodbush, *Doidge*, 1822 a.

Calonectria Cephalosporii Hansf.

Hansford (1946 a) 117 ; the conidial stage is a *Cephalosporium* sp.

on **Irene calostroma** (Desm.) v. Höhn., on *Rubus pinnatus*, Xumeni Forest, *Morgan & Doidge*, 30376 a.

Irene Nuxiae Syd., on *Lachnopylis floribunda*, Storms River, *Doidge*, 17181.

Irene Peglerae Doidge on *Halleria lucida*, Storms River, *Doidge*, 17182 a.

Irene Podocarpi on *Podocarpus falcatus*, Storms River, *Doidge*, 17166.

Irene Strophanthi Doidge on *Strophanthus speciosus*, Woodbush, *Doidge*, 1781 a.

Meliola buxicola Doidge on *Buxus MacOwani*, East London, *Doidge*, 22388 a.

Meliola Hippocrateae Doidge on *Hippocratea Schlechteri*, Karkloof, *Doidge*, 14971.

Meliola littoralis Syd., on *Gardenia globosa*, Umgeni, *Medley Wood*, 9038.

Meliola Osyridis Doidge on *Rhoiocarpus capensis*, Woodville Forest, *Doidge*, 10962 b ; Langholm Estates, *Doidge*, 12349 d ; Van Staden's Pass, *Doidge*, 17253 c.

Meliola sp. on *Isoglossa Woodii*, Stella Bush, *Wager*, 33196 a and b.

Calonectria decora (Wallr.) Sacc.

See *Fusarium ciliatum* Link ; the perfect stage of this fungus has not been observed in South Africa.

Calonectria leucorrhodina (Mont.) Speg.

P. Sydow (1899 a) (133) ; Medley Wood (1898) 11 ; Hansford (1946 a) 118.

on **Eugenia** sp., Natal, *Medley Wood 587*, 799, 10185.

Calonectria Meliolae Hansf.

Hansford (1941) 33.

See the conidial stage, *Eriomycopsis Meliolae* Hansf. ; the perfect stage of this fungus has not been seen in South Africa.

Calonectria rigidiuscula (Berk. & Br.) Sacc.

Doidge (1938) 341 ; see also the conidial form, *Fusarium decemcellulare* Brick isolated from the mycelial mat surrounding the stroma of *Epichloe cinerea* on *Sporobolus capensis*, cult. *Wollenweber*, 25897 b.

Calonectria Ugandae Hansf.

Hansford (1941) 35, (1946 a) 121 ; see also the conidial form, *Eriomycopsis Bomplandi* Speg.

on **Irene scabra** Doidge on *Trichocladus ellipticus*, Hogsback, *Henderson*, 11338 ; Pirie Forest, *Doidge*, 12298.

Claviceps Digitariae Hansf.

as *Claviceps* sp., Hopkins (1943) 184.

on **Digitaria Brazzae** (Tranch.) Stapf., Donkerpoort, *Doidge & Bottomley*, 32786.

Digitaria eriantha Steud., Prinshof, *Pentz*, 22102, *Bottomley*, 23378, 23878, 23877, 25324, 25325, 25326, 25327, 25328, 25329, 26368, 25369, 25370 ; Town Bush Valley, *Doidge*, 1614 ; Grahamstown, *Liebenberg*, 27516 ; Pienaars River, *Thomson*, 15059.

Digitaria glauca Stent, Donkerpoort, *Doidge & Bottomley*, 29767.

Digitaria Milanjiana Stapf, Salisbury, *Hopkins*.

Digitaria monodactyla Stapf, Groenkloof, *Pole Evans*, 11873.

Digitaria Pentzii Stent, Prinshof, *Bottomley*, 23379 ; Makokskraal, *Frean*, 23367 ; Potchefstroom, *Liebenberg*, 23368 ; Donkerpoort, *Doidge & Bottomley*, 29764 ; Bathurst, 26160.

Digitaria Smutsii Stent, Salisbury, *Rattray* (Rh. 4421) 33472.

Digitaria ternata Stapf, Butterworth, *Pegler*, 7741.

Digitaria spp., Estcourt, *West*, 29974 ; Kloof, *Robertson*, 23228 ; germinated sclerotia from Prinshof, *Scott*, 34000.

Claviceps Paspali Stev. & Hall

Mitchell (1918 b) 440, (1919) 391 ; van der Byl (1922 d) 284 ; Eyles (1926) 640 ; Verwoerd (1929 b) 13, (1931 a) 299 ; Doidge & Bottomley (1931) 46 ; Watt & Breijer-Brandwyk (1932) 213 ; Steyn (1934) 168 ; Hopkins (1938 a) 102, (1939 a) 30.

Sclerotium Paspali Hennings (1895 b) 327.

on **Paspalum dilatatum** Poir, Prinshof, *Bottomley*, 23376 ; Daspoort, *Wager*, 25346 ; Pyramids, *Mogg*, 32438 ; Groenkloof, Pole Evans 9055, *Bottomley*, 33470 ; Derdepoort, *Doidge & Bottomley*, 33935 ; Mocklands, *G.V.O.*, 28648 ; Ermelo, *Henrici*, 21212 ; Lake Chrissie, *Parry*, 11372 ; Nylstroom, *Prance*, 11321 ; Brereton, *Lea*, 13022 ; Heidelberg, *Mogg*, 24350, 24358 ; Langlaagte, *Fry*, 25338 ; Gamtoos River Valley, *Galpin*, 26843 ; between Stellenbosch and Paarl, *Lounsbury*, 11389 ; East London, *Palmer*, 9439 ; Mooi River, *Mogg*, 10072 ; Lidgetton, *Mogg*, 11636 ; Tweedie, *Mogg*, 11647 ; Durban, *Kent*, 21110, *v. d. Byl*, 9431 ; Donnybrook, *Webb*, 8948 ; Mid-Illovo, *Power* (v. d. Byl 501) 31784 ; Swaziland, *Burtt Davy*, 10027 ; Bloemfontein, *Verwoerd* ; Salisbury, *Eyles 1594*, 11860.

Paspalum distichum Linn., Wonderboompoort, *Mogg*, 23393, 23405 ; Pyramids, *Mogg*, 29843, 32441 ; Daspoort, *Wager*, 25344 ; Ermelo, *Henrici*, 21243 ; Grahamstown, *G.V.O.*, 30251 ; Maritzburg, *G.V.O.*, 30766, 30767 ; Durban, *Kent*, 21106.

Paspalum scrobiculatum Linn. var. **Commersonii** Stapf, Groenkloof, *Mellé*, 11320 ; Lidgetton, *Mogg*, 11641 ; Tugela Valley near Mont-aux-Sources, *Bottomley*, 14159.

Paspalum urvillei Steud., Prinshof, *Bottomley*, 23377 ; Skinners Court, *Bottomley*, 23404.

Paspalum spp., Natal, *Schlechter* ; Stellenbosch, *v. d. Byl 2072*, *Dippenaar* (Stell. 838) ; Somerset West, Paarl, George, *Verwoerd* ; Cedara, *v. d. Byl 387* ; Maritzburg, 30766 ; Rusapi (Rh. 1204, 1337) ; Mazoe, *Eyles*.

Claviceps purpurea (Fr.) Tul.

H. & P. Sydow (1909) 546 ; Pole Evans (1913 b) 175.

Claviceps sp., van der Byl (1922 d) 284.

on **Festuca elatior** Linn., Maritzburg, *Carter*, 21206 ; Potchefstroom, *Bell* 2078, 2165.

Festuca scabra Vahl, Kokstad, *G.V.O.*, 11696 ; Lion's Head, *Thompson*, 14365.

Lolium multiflorum Lam., Taylerville, *G.V.O.*, 28870 ; Nottingham Road, *McClean*, 31025.

Pennisetum macrourum Trin., Elsenburg, 5600 ; Cape Town, *Curson*, 9791 ; Stellenbosch, *Thompson*, 15060, *Verwoerd* (Stell. 22) 32494.

Pennisetum sphacelatum Dur. et Schinz, Orange Free State, *v. d. Merwe*, 910 ; Kokstad, *Paine*, 10037.
Pennisetum sp., Elsenburg, *Peringuey*, 680, *Baker*, 28894.
? on **Cenchrus ciliaris** Linn., Prinshof, *Liebenberg*, 33401 ; Rietondale, *Liebenberg*, 33473.

Claviceps sp.
on *Andropogoneae.*
on **Anthephora pubescens** Nees, Groenkloof, *Pole Evans*, 11503, 14122.
Sorghum caffrorum Beauv., Natal, *Sellschop*, 28658.
Themeda triandra Forsk., Kroonstad, *Pont*, 26667.

Claviceps sp.
on *Cyperaceae.*
on **Scirpus ? costatus** Bock, Singisi, *D.F.O.*, 23198.
Cyperus esculentus L., Hartebeestpoort, *Liebenberg*, 32388 ; Pretoria, *Liebenberg*, 32130 ; Kempton Park, *v. d. Plank*, 34100 ; Univ. Exp. Farm, Pretoria, *E. J. Scott*, 34101.
Cyperus rotundus Linn., Univ. Exp. Farm, Pretoria, *E. J. Scott*, 34102 ; Brits, *Sellschop*, 34212.

Claviceps sp.
Nel (1942) 15.
as *Claviceps microcephala* (Wallr.) Tul., United States Dept. Agric. (1942) 42.
on *Chlorideae.*
on **Cynodon Dactylon** Pers., Pretoria, *Kresfelder*, 10059 ; Skinners Court, *Mogg*, 11674 ; Daspoort, *Wager*, 25345 ; Donkerpoort, *Doidge & Bottomley*, 29774 ; Nylstroom, *Pole Evans*, 10060 ; Vereeniging, *L. C. Turner*, 10035 ; Bellville, *Buller* 11800 ; Potchefstroom, *Radloff* (v. d. Byl 2099).
Cynodon plectostachyum Pilg., on material sent from S. Africa to the United States of America.

Claviceps sp.
on *Festuceae.*
on **Brachypodium flexum** Nees., Xumeni Forest, *Morgan & Doidge*, 32222, 32770, *Doidge*, 34119 ; Indumeni Forest, Cathedral Peak area, *Schelpe*, 34132.

Claviceps sp.
on *Paniceae*
on **Brachiaria brizantha** Stapf, Rosehaugh, *T. R. Sim*, 7411 ; Nelspruit, *Pienaar*, 10100 ; White River, *Liebenberg*, 26673, *Loest*, 28598 ; Moodie's Estates, *Wager*, 26149 ; Cedara, *Fisher*, 30467 ; Mtambanana, *Salberg*, 15442 ; Salisbury, *Walters*, 8867, *Eyles 1543*, 11859 and (Rh. 4515) 33471.
Brachiaria dictyoneura Stapf (Hopkins 1943 : 180) Salisbury (Rh. 4505).
Brachiaria nigropedata Stapf, Prinshof, Pentz, 23227.
Panicum deustum Thunb., Xumeni Forest, *Doidge*, 34117.
Panicum obscurans Stapf, Xumeni Forest, *Doidge*, 32221.
Panicum maximum Jacq., Kentani, *Pegler*, 6650, 6920 ; Butterworth, *Pegler*, 7740 ; Moodie's Estates, 26151 ; Haakdoorn, *Blair White*, 27384 ; Arcturus, *Hopkins* (Hopkins 1943 : 187) (Rh. 5329).

Claviceps sp.

on *Paniceae* (Setaria)

on **Setaria flabellata** Stapf, Pretoria, *Pole Evans*, 10119, 10015 ; Koedoespoort, *Pienaar*, 10016.
Setaria perennis Hack., Groenkloof, *E. P. Phillips*, 11877.
Setaria sphacelata Stapf et Hubb., Garstfontein, *Pienaar*, 8907 ; Prinshof, *Liebenberg*, 32196.
Setaria sp., Frankenwald, Johannesburg, *Cohen*, 34211.

Claviceps sp.

Nel (1942) 15.

on *Phalaridae*

on **Ehrharta bulbosa** Sm., Stellenbosch, *Duthie* (v. d. Byl 2067).
Ehrharta calycina Sm., Kirstenbosch, *Compton*, 14267, *Pole Evans*, 14249 ; Lion's Head, *Thompson*, 14266.
Ehrharta capensis Thunb., Lion's Head, *Thompson*, 14264.
Phalaris arundinacea L., without locality.
Phalaris tuberosa L., Amsterdam, *Buchanan*, 781 ; Ermelo District, 1869 ; Prinshof, *Pentz*, 15421, *Codd*, 32473.

Cordyceps flabella Berk. & Curt.

Winter (1885 b) 34.

on host undet., Boschberg, *MacOwan*.

Cordyceps velutipes Mass.

Massee (1895) 21 ; Sacc. Syll. Fung. XIV : 661.

on **Elateridae**, larvae, Klerksdorp, *Alston* (comm. MacOwan) Kew.

Cordyceps sp.

Nel (1942) 15.

on unidentified insect, Bethlehem, *v. d. Merwe* (v. d. Byl 2537).

Epichloe cinerea Berk. & Br.

Medley Wood (1898) 12 ; Hopkins (1939 a) 18, (1943) 184 ; Doidge (1948 a) 855.
? *Epichloe Zahlbruckneriana* P. Hennings (1900 a) 1 ; Doidge & Bottomley (1931) 26 ; Sacc. Syll. Fung. XVI : 607 ; Nel (1942) 15.
Epichloe Eragrostis Pole Evans (1918 c) 110 ; Pole Evans & Bottomley (1918) 187 ; Hopkins (1938 a) 102.

on **Bewsia biflora** Goossens, Rietvlei, Pretoria District, *Murray & Acocks*, 30249 ; Fountains Valley, *Mogg*, 11334 ; Kaalfontein, *Pole Evans*, 9543 a.
Ctenium concinnum Nees, Himeville, *Storey*, 32495.
Digitaria Brazzae Stapf, Marandellas, Rattray (Rh. 1855) 30111.
Digitaria diagonalis Stapf, Groenkloof, *Pole Evans*, 11871.
Eragrostis chloromelas Steud., Pretoria, *Pole Evans*, 9159.
Eragrostis curvula Nees, Umzimkulu, *Browne*, 9688.
Eragrostis plana Nees, Kentani, *Pegler 1855*, 2076, 2139, 2190, Kew ; Tabamhlope, *West*, 30519 ; Mooi River, *Mogg*, 10063, 10076 ; Botanical Gardens, Durban, *Kent*, 15455 ; Moedig Siding, *Mainprize*, 28538 ; Tweedie, *Mogg*, 10066 ; Athol Research Sta., Ermelo, *Norval*, 34325.
Eragrostis ? robusta Stent, Hopevale, *Morgan*, 27749.
Eragrostis sclerantha Nees, Donkerpoort, *Doidge & Bottomley*, 29761.

Eragrostis spp., Durban, *Baker*, 32016, *v. d. Byl 71* ; Vereeniging, *L. C. Turner*, 8977 ; Tabamhlope, *West*, 30519.
Microchloa caffra Nees, Groenkloof, *Pole Evans*, 11872.
Panicum natalense Hochst., Robert's Heights, *Mogg*, 33431.
Setaria nigrirostris Dur. & Schinz., Groenkloof, *E. P. Phillips*, 14248.
Sporobolus capensis Kunth, Acton Homes, *L. A. Doidge*, 25897 ; Eshowe, *Gerstner*, 28580 ; Lidgetton, *Mogg*, 11637 ; Thorneville Junction, *Doidge*, 865 ; Durban, *Medley Wood 825*, Kew ; Pirie, near Maden Dam, *Archibald*, 34223.
Tristachya Rehmanni Hack, Kaalfontein, *Pole Evans*, 9542.
on grasses undet., ? Mt. Insizwa, *Krook* (R. Penther 2205) ; Natal, *Medley Wood 3959* ; Donnybrook, *Gordon*, 30790 ; Cramond, *Pole Evans*, 1369, 1395 ; Lidgetton, *Mogg*, 11639 ; Fairy Glen, *Lounsbury*, 17051 ; Skinners Court, *Pole Evans*, 745 ; Fountains Valley, *Mogg*, 11335 ; Orange Free State, *Nobbs*, 20910 ; Basutoland, *Dieterlen*, 11715, 18025 ; Sonderwater, *Mogg*, 33961.

Gibberella acuminata Wollenw.

See *Fusarium Scirpi* Lamb. & Fautr. var. *acuminatum* (Ell. & Everh.) Wollenw ; the perfect stage of this fungus has not been found in South Africa.

Gibberella baccata (Wallr.) Sacc.

See *Fusarium lateritium* Nees ; the perfect stage of this fungus has not been observed in South Africa.

Gibberella Fujikuroi (Sawada) Wollenw.

Hopkins (1939 a) 49.
See also the conidial stage, *Fusarium moniliforme* Sheld.
on **Zea Mays** Linn., cobs, Chakari, Salisbury, *Hopkins*.

Var. **subglutinans** Edwards

Hopkins (1939 a) 49.
See also *Fusarium moniliforme* var. *subglutinans* Wollenw.
on **Crotalaria juncea** Linn., stems, Brits, *Hean*.
Zea Mays Linn., Chakari, Salisbury, *Hopkins*.

Gibberella intricans Wollenw.

See *Fusarium Equiseti* (Corda) Sacc. var. *bullatum* (Sherb.) Wollenw. ; the perfect stage of this fungus has not been recorded in South Africa.

Gibberella pulicaris (Fr.) Sacc.

See also the conidial stage, *Fusarium sambucinum* Fuck.
on **Solanum auriculatum** Ait., dead stems, Xumeni Forest, *Morgan & Doidge*, 33475.

Gibberella Saubinetii (Mont.) Sacc. pr. p.

Doidge & Bottomley (1931) 36 ; Eyles (1926) 642 ; Watt & Breijer-Brandwyk (1932) 213 ; Wickens (1937) 691 ; Doidge (1938) 384 ; Hopkins (1938 a) 103, (1939 a) 50.
See also *Fusarium graminearum* Schwabe, the conidial stage.
on **Triticum aestivum** Linn., Bredasdorp, *Gorter* (Stell. 1060).
Zea Mays Linn., Hopevale, *Doidge*, 27723 ; Potchefstroom, *Sellschop*, 28664 ; Salisbury, *Eyles*, *Wickens* ; Glendale, Salisbury, Trelawney, Marandellas, *Hopkins* ; Mazoe, *Hopkins* (Rh. 1247) Kew.

Hypocrea carnea Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 26.
on bark, Somerset East, *MacOwan 20*.

Hypocrea chrysostigma Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 26 ; Sacc. Syll. Fung. II : 525.
on bark, Somerset East, *MacOwan 1301*, Kew.

Hypocrea citrina (Pers.) Fr.

Lloyd (1920) 960.
on decayed log, Forest Hall. Knysna, *Duthie 225*, 31412.

Hypocrea Inandae Cooke

? nom. nud.
on bark, Inanda, *Medley Wood 547*, Kew.

Hypocrea Lycogalae Kalchbr. & Cooke

Cooke (1879 b) 72 ; Kalchbrenner & Cooke (1880) 26.
on rotten wood, Boschberg, *MacOwan* (Rabenh. Fung. Eur. 3253) 3593, 21958, Kew ; Inanda, *Medley Wood 399*, 10391, Kew.

Hypocrea rufa (Pers.) Fr.

Lloyd (1916 d) L. 63 : 4.
on bark, Knysna, *Duthie 129*, 31360.

Hypocrea subcitrina Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 26 ; Sacc. Syll. Fung. II : 524 ; Lloyd (1923) 1257
on **Acacia mollissima** Willd., Maritzburg, *Rump 66*, 28274.
on bark of tree undet., Somerset East, *MacOwan 184, 202, 205*, Kew.

Hypocrea sulphurella Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 26 ; Medley Wood (1898) 18 ; Sacc. Syll. Fung. II : 525.
on **Eucalyptus** sp., bark, Natal, *Medley Wood 178*, Kew.

Hypocrea trachycarpa Syd.

on **Solanum auriculatum** Ait, dead wood, Xumeni Forest, *Morgan & Doidge*, 27732, 28909 33076.

Hypocrea sp.

Medley Wood (1898) 18.
on bark, Natal, *Medley Wood 547*, 10634, 11187.

Hypomyces chrysospermus Tul.

on **Boletus** sp., Pretoria, *Bottomley*, 34571.

Hypomyces Ipomoeae (Halst.) Wollenw.

Hopkins (1933) 505 ; Bates (1937 b) 206.
on **Citrus maxima** Merr., fruit, Mazoe, *Bates*.

Malacaria meliolicola Syd.

Hansford (1946 a) 126.
on **Meliola Woodiana** Sacc. on *Canthium spinosum*, Keurkloof Forest, *Doidge*, 17119 c ; on *Canthium ventosum*, Durban, *Bottomley*, 11385 e ; Keurkloof Forest, *Doidge*, 17110 d.

Megalonectria nigrescens (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. II : 561.
Sphaerostilbe nigrescens Kalchbrenner & Cooke (1880) 26.
on bark, Somerset East, *MacOwan 1039* (S.A.M. 35205, as Isaria Nectriae Kalchbr.) Kew.

Megalonectria pseudotrichia (Schw.) Speg.

Simpson & Talbot (1946) 133.
on **Acacia mollissima** Willd., dead branches, Chase Valley, *Rump*, 34070 ; Qudeni Forest, *Simpson & Talbot*, 34947.

Melanospora parasitica Tul.

Pole Evans (1912 b) 67 ; Skaife (1920) 298.
on **Isaria Psychidae** Pole Evans on *Acanthopsyche Junodi*, Cedara, Skaife ; Cramond, *Ripley*, 33981.

Nectria cinnabarina (Tode) Fr.

on **Pyrus malus** Linn., twigs, Parys, 14106.

Nectria coccinea (Pers.) Fr.

von Thuemen (1877) 408 ; Medley Wood (1898) 18 ; Sacc. Syll. Fung. II : 481.
on **Acacia decurrens** Willd., dead branches, Cramond, *Pole Evans*, 1328.
Kiggelaria sp., Groote Schuur, *J. Acocks* (E. L. Stephens 238) 34526.
on dead branches, Boschberg, *MacOwan 1064* (S.A.M. 33595) 20822 ; Inanda, *Medley Wood 517*, 11188, Kew.

Nectria coccophila (Tul.) Wollenw. & Reinking

See *Fusarium coccophilum* (Desm.) Wollenw. & Reinking ; the perfect stage of this fungus has not been observed in South Africa.

Nectria ditissima Tul.

MacOwan (1894) 127.
on **Pyrus malus** Linn., branches, Cape *MacOwan*.

Nectria episphaeria Tode ex Fr.

on **Hypoxylon** sp., on dead wood, near Rhodes Memorial, Table Mountain, *J. Acocks*, (E. L. Stephens 511) 34524.

Nectria eximia Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 27.
on bark, Somerset East, *MacOwan*, Kew.

Nectria furfuracea Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 27 ; Sacc. Syll. Fung. II : 504.
on bark, Natal, ? *Medley Wood 186*, Kew.

Nectria galligena Bres.

Doidge & Bottomley (1931) 6, 48.

?on **Pyrus malus** Linn., Zoutpansberg, 6821 ; Cedara, *v. d. Byl 678*, 31890 ; of minor importance in Natal, Orange Free State and Transvaal.

on **Pyrus communis** Linn., Kimberley.

Nectria heterosperma Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 27 ; Sacc. Syll. Fung. II : 485.

on dead branches, Somerset East, *MacOwan 1064*, Kew.

Nectria leocarpoides Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 27.

on **Sarcophyte sanguinea** Sparm., Somerset East, *MacOwan 5*.

Nectria martialis Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 27 ; Sacc. Syll. Fung. II : 497.

on dead wood, Somerset East, *MacOwan 1161*.

Nectria meliolopsicola P. Henn.

on **Meliola Excoecariae** Doidge on *Sapium Simii*, Buccleuch, *Doidge*, 11566 c.

Nectria perpusilla Sacc.

Hansford (1946 a) 111, 114.

on **Meliola Goniomae** Doidge on *Gonioma Camassi*, Xumeni Forest, *Doidge*, 31075.

Nectria Peziza (Tode) Fr.

van der Byl (1925 b) 192 ; J. Phillips (1931) 160 ; Nel (1942) 15.

on old wood, Knysna, Duthie (v. d. Byl 428) ; Winterhoekberg, *Rothmann* (v. d. Byl 1471).

Nectria sp.

Doidge & Bottomley (1931) 51.

on **Populus** sp., south-western Cape.

Neocosmospora vasinfecta E. F. Sm.

Wollenweber (1935) No. 1101.

isolated from **Carica Papaya** Linn., Nelspruit, *Wager*, 28409.

Var. **tracheiphila** Erw. F. Sm.

Wollenweber (1935) No. 1102.

isolated from **Medicago sativa** Linn., crown, Pietersburg, *Doidge*, 28455.

Paranectria minuta Hansf.

Hansford (1946 a) 131.

on **Irene natalensis** Doidge on *Dovyalis rhamnoides*, Inanda, *Medley Wood 6454*, 9509.
Meliola Carissae Doidge on *Carissa bispinosa*, Pirie Forest, *Doidge*, 22397 c.
Meliola Osyridis Doidge on *Rhoiocarpus capensis*, Langholm Estates, *Doidge*, 12349 c.

Paranectria parasitica Wint.

Winter (1884 c) 263 ; Sacc. Syll. Fung. IX : 987.

on **Osyris abyssinica** Hochst., near Cape Town, *MacOwan* ; Boschberg, *MacOwan 1256*.

Physalosporiña Sutherlandiae (Kalchbr. & Cooke) Petrak

Petrak (1934) 411 ; Doidge (1941 b) 202.
Stigmatea Sutherlandiae Kalchbrenner & Cooke (1880) 32 ; Sacc. Syll. Fung. I : 543.
Stigmatula Sutherlandiae (Kalchbr. & Cooke) Syd., H. & P. Sydow (1901 b) 78.
Hyponectria Sutherlandiae (Kalchbr. & Cooke) Theissen (1919) 23.
on **Sutherlandia frutescens** R. Br., Boschberg, *MacOwan 1415* (Rabenh. Fung. Eur. 3344) 3684, 20846, 21978, Kew.

Pleonectria pseudotrichia (Schw.) Wollenw.

Sphaerostilbe pseudotrichia Berk. & Br., Medley Wood (1898) 19 ; see also the conidial form, *Stilbum cinnabarinum* Mont.
on dry wood, Inanda, *Medley Wood 488*, 9484, 10656.

Podocrea Transvaalii Lloyd

Lloyd (1920) 1010, 1032 ; Stevenson & Cash (1936) 22.
on ground, Durban, *Lansdell* (Lloyd. Myc. Coll. 6050) 12793.

Podonectria coccicola (Ell. & Everh.) Petch

Petch (1922) 146.
on **Lepidosaphes Gloveri** Pack on *Citrus* sp., Zululand, *F. W. South*, Kew.

Sphaerostilbe hypocreoides Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 26 ; Sacc. Syll. Fung. II : 515.
on bark, Somerset East, *MacOwan 36*.

Sphaerostilbe Mac Owani (Koerb.) Cooke

Cooke (1891 c) 16.
Coniocybe MacOwanii Koerber (1877) 357 ; Sacc. Syll. Fung. XI : 360.
Gassicourtia silicea Fée, Stizenberger (1890) p. 21 not. ; Zahlbruckner, Cat. Lich. I : 649.
on bark, Cape.

Ustilaginoidea mossambicensis P. Henn.

P. Hennings (1897 b) 539 ; Sacc. Syll. Fung. XIV : 431.
on **Arundinella** sp., ovaries, Moçambique, *Peters 185*.

Ustilaginoidea Setariae Bref.
on **Setaria Chevalieri** Stapf, Maritzburg, *D.V.O.*, 11370.
Setaria sphacelata Stapf & Hubb., Groenkloof, *Pole Evans*, 9054.

MYCOSPHAERELLACEAE.

Cryptodidymosphaeria Clandestina Syd.

H. Sydow (1939 a) 196.
Phaeodothis Tristachyae Syd., H. & P. Sydow (1912 a) 4 ; Doidge (1922 a) 67, (1942 b) 460 ; Sacc. Syll. Fung. XXIV : 618.
sub *Phaeodothis stenostoma* (Ell. & Tracy) Theiss. & Syd., Doidge (1922 a) 66, (1942 b) 460; Doidge & Bottomley (1931) 28.
on **Phyllachora Cynodontis** (Sacc.) Niessl., on *Cynodon Dactylon*, Donkerpoort, *Doidge & Bottomley*, 29749.
Phyllachora Doidgeae Syd. on *Cymbopogon marginatus*, Donkerpoort, *Doidge & Bottomley*, 29744, 29800.

Phyllachora Evansii Syd. on *Setaria Chevalieri*, Umtentweni, *Wager*, 32673.
Phyllachora heterospora P. Henn. on Panicum maximum, Bluff, *Doidge*, 1611.
Phyllachora Tricholaenae P. Henn. on *Rhynchelytrum repens*, Donkerpoort, *Doidge & Bottomley*. 29738.
Phyllachora spp. on *Eragrostis* sp., Donkerpoort, *Doidge & Bottomley*, 29746 ; on *Tristachya hispida*, Mooi River, *Burtt Davy*, 1470.

Didymella intercepta (Kalchbr. & Cooke) Sacc.

Saccardo. Syll. Fung. I : 556.
Sphaeria intercepta Kalchbrenner & Cooke (1880) 29.
on **Senecio longifolius** Linn., Somerset East, *MacOwan 1398*, Type, Kew.

Didymella Lycopersici Kleb.

Mycosphaerella citrullina (C. O. Smith) Gross., United States Dept. Agric. (1942) 44, (1941) 60.
on **Cucurbita maxima** Duchesne, intercepted in United States of America on material from South Africa.
Citrullus vulgaris Schrad., intercepted in the United States on material from South Africa.
? on **Telfairia pedata** Hook., Melsetter, *Hopkins* (Rh. 5464).

Didymella zuluensis Doidge

Doidge (1948 a) 859.
on **Eugenia zuluensis** Dummer, Xumeni Forest, *Morgan & Doidge*, 29840, Type.

Didymellina Dianthi Burt

See *Heterosporium echinulatum* (Berk.) Cooke ; the perfect stage of this fungus has not been recorded in South Africa.

Didymosphaeria clavata du Pless.

du Plessis (1933 f) 207 ; Nel (1942) 23.
on **Aloe microstigma** Salm., Stellenbosch, *du Plessis* (v. d. Byl 2717) Type.

Didymosphaeria opulenta (de Not.) Sacc.

on **Opuntia** sp., Wolmaransstad, *Liebenberg*, 26391 ; Nelspruit, *Liebenberg*, 26572.

Didymosphaeria populina Vuill.

on **Populus** sp., Evelyn Valley, *D.F.O.*, 9727.

Didymosphaeria Rafniae Verw. & du Pless.

Verwoerd & du Plessis (1932) 313.
on **Rafnia perfoliata** E. Mey., Gordons Bay (Stell. 589).

Didymosphaeria spatharum Wint.

Winter (1885 b) 28 ; Sacc. Syll. Fung. IX : 735.
on **Bobartia spathacea** Ker., Table Mt., *MacOwan*, Type.

Guignardia Bidwellii Vi. & Rav.

Doidge & Bottomley (1931) 28 ; Cardoso (1937) 152, (1938) 75, (1939) 45.
on **Vitis vinifera** Linn., Maritzburg, *Pole Evans*, 1483 ; Grahamstown, *Mally*, 21985 ; Sul do Save, *Cardoso* ; Lourenço Marques, *Clemente*.

Leptosphaeria anceps Sacc.

on **Ribes nigrum** Linn., imported cuttings, Pretoria, 926.
Ribes rubrum Linn., imported cuttings, Pretoria, 927.

Leptosphaeria cervispora (Kalchbr. & Cooke) Sacc.

Saccardo, Syl. Fung. II : 44.
Sphaeria cervispora Kalchbrenner & Cooke (1880) 29.
on **Artemisia afra** Jacq., stems, Somerset East, *MacOwan 1399 d*, Type, Kew.

Leptosphaeria Cinnamomi Shirai & Hara

Verwoerd & du Plessis (1933) 226.
on **Cinnamomum zeylanicum** Nees, Univ. Bot. Gard., Stellenbosch, *Verwoerd*, (Stell. 410).

Leptosphaeria Coniothyrium (Fuck.) Sacc.

See also the conidial form *Coniothyrium Fuckelii* Sacc. ; the perfect stage of this fungus has not been observed in the Union of South Africa.
on **Rosa** sp., Que Que, *Hopkins* (Rh. 5856) ; Salisbury (Rh. 5662) ; Mazoe, *Hopkins* (Rh. 5058).

Leptosphaeria Helichrysi (Cooke) Sacc.

Saccardo, Syll. Fung. IX : 783.
Leptosphaerella Helichrysi Cooke (1890 b) 7.
on **Helichrysum** spp., Natal, *Medley Wood 683*, Type, Kew ; Garstfontein, *Erasmus*. 1256 ; Mac Mac Falls, *Pole Evans*, 28741.

Leptosphaeria Owaniae (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. II : 33.
Sphaeria Owaniae Kalchbrenner & Cooke (1880) 29.
on **Artemisia afra** Jacq., stems, Somerset East, *MacOwan 1399 b*, Type, Kew.

Leptosphaeria Protearum Syd.

H. & P. Sydow (1912 c) 441 ; Doidge (1927 b) 231 ; Doidge & Bottomley (1931) 53 ; Hopkins (1939 a) 35 ; Nel (1942) 23.
on **Protea abyssinica** Willd., Stapleford, *Hopkins*.
Protea barbigera Meisn., Frenchhoek, *Dippenaar* (Stell. 977, 908, 909 ; v. d. Byl 2599).
Protea cynaroides Linn., St. James, *Pole Evans*, 5573.
Protea lepidocarpodendron Linn. var. **villosa** Pill., Wellington, *Doidge*, 2061, Type, 2062.
Protea mellifera Thunb., Stellenbosch, *Dippenaar* (Stell. 408, 910, 911).
Protea spp., Frenchhoek, *Dippenaar* (Stell. 422, 831) ; Stellenbosch, *du Plessis* (Stell. 616) ; Table Mt., *Dippenaar* (Stell. 864).

Leptosphaeria Pterocelastri Doidge

Doidge (1948 a) 859.

on **Pterocelastrus tricuspidatus** Sond., Knysna, *Laughton*, 35143, Type.

Leptosphaeria Sacchari van Breda

van der Byl (1921 h) 123 ; Doidge & Bottomley (1931) 59 ; Mc Martin (1938) 214 ; Stevenson & Rands (1938) 278 ; Hopkins (1938 a) 102, (1939 a) 45 ; Doidge (1941 b) 210.

on **Saccharum officinarum** Linn., Empangeni, *v. d. Byl 680*, 31891 ; Mt. Edgecombe, *McMartin*, 31040, 31041 ; Durban, *v. d. Byl 178* (Stell. 1).
Sorghum spp., Umtali (Rh. 2955).

Leptosphaeria Salvinii Catt.

Cardoso (1938) 75, (1937) 152, (1939) 45, (1945) 150.
on **Oryza sativa** Linn., Massinga, Morrumbene, *Gomes e Sousa* ; Umbeluzi, *Oliveira*.

Leptosphaeria Verwoerdiana du Pless.

du Plessis (1933 f) 207 ; Nel (1942) 23.
on **Aloe affinis** Berg., Stellenbosch, *du Plessis* (Stell. 811 ; v. d. Byl 2715), Type.
Aloe striatula Haw., Stellenbosch, *du Plessis* (Stell. 817 ; v. d. Byl 2657).

Metasphaeria brachiata (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. II : 160.
Sphaeria brachiata Kalchbrenner & Cooke (1880) 30.
on **Clematis brachiata** Thunb., twigs, Somerset East, *MacOwan 1358*, Type, Kew.
Senecio quinquelobus Linn., without locality, *MacOwan*.

Metasphaeria caffra (Thuem.) ? Petrak

Petrak (1927) 262 ; Doidge (1942 a) 329.
Piggotia (?) *filicina* Thuem., von Thuemen (1875) 380.
Leptosphaeria caffra Thuem., von Thuemen (1876 b) 363, (1877 b) No. 351 ; Sacc. Syll. Fung. II : 82.
Sphaeria caffra Kalchbrenner & Cooke (1880) 30.
Micropeltis Marattiae P. Hennings (1895) 12 ; Sacc. Syll. Fung. XI : 382.
Phragmosperma Marattiae (P. Henn.) Theissen & Sydow (1916) 451 ; H. Sydow (1924 c) 435 ; Doidge (1924 a) 219 ; van der Byl (1926 c) 287 ; Nel (1942) 24.
on **Marattia fraxinea** Sm., Bazuja, *Baur*, Type (Thuem. Myc. Univ. 351; Rabenh. Wint. Fung. Eur. 3453 ; S.A.M. 33712) 20915, 3793, 21959, Kew ; Winters Kloof, *Doidge*, 1632 ; Woodbush, *v. d. Byl 1511*.

Metasphaeria cumana (Sacc. & Speg.) Sacc.

Saccardo, Syll. Fung. II : 177.
Sphaeria cumana Sacc. & Speg., Kalchbrenner & Cooke (1880) 30.
on **Carex petitiana** A. Rich., leaves, Somerset East, *MacOwan 1353*, Type.

Metasphaeria metuloidea (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. II : 159.
Sphaeria metuloidea Kalchbrenner & Cooke (1880) 29.
on **Artemisia afra** Jacq., Somerset East, *MacOwan 1399 a*, Kew, Type.

Mycosphaerella Agapanthi (Kalchbr. & Cooke) Lindau

Lindau (1897) 427; Doidge & Bottomley (1931) 4; Nel (1942) 24 ; Doidge (1948 a) 860.
Sphaerella Agapanthi Kalchbrenner & Cooke (1880) 31 ; Sacc. Syll. Fung. I : 524.
on **Agapanthus africanus** Hoffm., leaves, Kentani, *Pegler 2366*, 9167, Kew ; Cape, *MacOwan 1342*, Type, 22016, Kew ; Durban, *v. d. Byl 329 a*, 31954 a, Kew.

Mycosphaerella Aloes Syd.

H. Sydow (1939 a) 181 ; Doidge (1941 b) 203.
on **Aloe lineata** Haw., Port Elizabeth, *Doidge*, 2293, Type.

Mycosphaerella areola Ehrlich & Wolf.

See *Cercosporella Gossypii* Speg. ; the perfect stage of this fungus has not been found in South Africa.

Mycosphaerella brassicicola (de Bary) Lindau

Verwoerd (1929 b) 10, (1931 a) 299 ; Doidge & Bottomley (1931) 15 ; Nel (1942) 24.
Sphaerella brassicicola de Bary, Pole Evans (1908 e) 122.
See also the conidial stage, *Phyllosticta Brassicae* West.
on **Brassica oleracea** Linn., Bloemfontein, *Verwoerd* ; Stellenbosch, *v. d. Byl*
Brassica oleracea var. **botrytis** Linn., Stellenbosch, *Verwoerd* (Stell. 54) ; Kuils River, *Verwoerd.*

Mycosphaerella Byliana Syd.

H. Sydow (1924 c) 423, (1926) 269 ; Nel (1942) 24.
on **Olea capensis** Linn., Genadendal, *Verwoerd*, Type (Stell. 138 ; v. d. Byl 1296) ; Knysna *v. d. Byl 2310.*

Mycosphaerella Dichrostachydis v. d. Byl

van der Byl (1928 b) 186 ; Hopkins (1938 a) 102 ; Nel (1942) 24.
on **Dichrostachys nyassana** Taub., Umwindsi River, *Henkel* (v. d. Byl 2466) Type.

Mycosphaerella Fragariae (Tul.) Lindau

van der Byl (1922 d) 284 ; Verwoerd (1929 b) 26, (1931 a) 299 ; Doidge & Bottomley (1931) 58 ; Hopkins (1938 a) 102, (1939 a) 19 ; Nel (1942) 24 ; Cardoso (1945) 155.
on **Fragaria vesca** Linn., Bloemfontein, *Verwoerd* ; Stellenbosch, *v. d. Byl 97* ; Avontuur, *Zondagh* (Stell. 538) ; Umbeluzi, *Howard.*
Fragaria spp., Pretoria, *Doidge*, 688 ; Berryvale, Elandshoek, *Wager*, 22384 ; Grahamstown, *Mally*, 21989 ; Mossel Bay, *Somerville*, 20668 ; Stellenbosch, Wellington, *Verwoerd* ; Umbelusi River, *Howard*, 517 ; Salisbury, *Eyles 2103* (Rh. 408, 753, 1220) 14008, Kew ; Umtali (Rh. 2339, 2808) ; Selukwe (Rh. 1529).

Mycosphaerella gibelliana Passer.

Bates (1927 b) 202.
on **Citrus Limonia** Osbeck, fruits, Mazoe, *Bates.*

Mycosphaerella gossypina (Cooke) Atk.

Hopkins (1938 a) 102.
on **Gossypium** sp., Salisbury (Rh. 2093) ; Darwendale (Rh. 1394).

Mycosphaerella Loranthi Syd.

H. & P. Sydow (1914 b) 264.
on **Loranthus Dregei** E. & Z., Nelspruit, *v. d. Byl*, 7078, Type.

Mycosphaerella maculiformis (Pers.) Schroet.

See *Cylindrosporium castanicolum* (Desm.) Berl., the perfect stage of this fungus has not been recorded in South Africa.

Mycosphaerella Moelleriana (Thuem.) Lindau

Lindau (1897) 425 ; Verwoerd & du Plessis (1933) 227 ; Nel (1942) 24 ; Doidge (1948 a) 861.

on **Eucalyptus corynocalyx** F. Muell., Cedara, *D.F.O.*, 26122.
Eucalyptus diversicolor F. Muell., Kruisfontein, Knysna, *Laughton*, 34301.
Eucalyptus gigantea Dehnh., Hogsback, *D.F.O.*, 20620.
Eucalyptus globulus Lab., Cedara, *D.F.O.*, 26116, 26117, 26118, 26131 ; Natal Native Trust Forests, *D.F.O.*, 26125 ; Hilton Road, *D.F.O.*, 26127, 26128 ; Merrivale, *D.F.O.*, 26129, 26130 ; Krugersdorp, *D.F.O.*, 32202.
Eucalyptus maculata Hook., Cedara, *D.F.O.*, 26121.
Eucalyptus Maidenii F. Muell., Birnham Woods, Merrivale, *D.F.O.*, 26126 ; Berlin, *D.F.O.*, 23664 ; Cedara, *D.F.O.*, 26119 ; Jessievale, *D.F.O.*, 26107.
Eucalyptus saligna Sm., Natal Native Trust Forests, *D.F.O.*, 26123.
Eucalyptus Stuartiana F. Muell., Cedara, *D.F.O.*, 26120.
Eucalyptus tereticornis Sm., Natal Native Trust Forests, *D.F.O.*, 26124.
Eucalyptus spp., Harding, *Wilding*, 28787 ; Somerset West, *du Plessis* (Stell. 800 ; v. d. Byl 2692).

Mycosphaerella moricola (Fuck.) Linn.

See *Septogloeum Mori* (Lév.) Bri. & Cav. ; the perfect stage of this fungus has not been recorded in South Africa.

Mycosphaerella Nemesiae Dipp.

Dippenaar (1931 c) 287.

on **Nemesia** sp., Stellenbosch, *Dippenaar* (Stell. 923) Type ; Diep Rivier, *Knowles* (Stell. 445)

Mycosphaerella pinodes (Berk. & Br.) Stone

Verwoerd & Dippenaar (1930) 329 ; Hopkins (1938 a) 102, (1939 a) 15.

on **Crotalaria juncea** Linn., Salisbury (Rh. 1949).
Pisum sativum Linn., Stellenbosch, *Verwoerd* (Stell. 360), *Dippenaar*, (Stell. 832, 922, 892) ; Elsenburg, *Dippenaar* (Stell. 921) ; Elgin, *Dippenaar*, (Stell. 893).

Mycosphaerella Plectranthi Doidge

Doidge (1948 a) 862.

on **Plectranthus fruticosus** L'Herit., leaves, Knysna, *Bottomley*, 32253.

Mycosphaerella Rubi (West.) Roark.

See *Septoria Rubi* West. ; the perfect stage of this fungus has not been recorded in South Africa.

Mycosphaerella Schoenoprasi (Rabenh.) Schroet.

United States Dept. Agric. (1944) 31.

on **Allium Porrum** Linn., intercepted in the United States of America on material from South Africa ; not recorded locally.

Mycosphaerella sentina (Fr.) Schroet.

See *Septoria pyricola* Desm. ; the perfect stage of this fungus has not been recorded in South Africa.

Mycosphaerella Theae Shaw

Hopkins (1939 a) 45, (1939 c) 592.
on **Thea sinensis** Linn., Chipinga, *Hopkins*.

Oligostroma maculiformis (Wint.) Doidge

Doidge (1921 c) 31 ; Doidge & Bottomley (1931) 53.
Didymella maculiformis Winter (1884 b) 169 ; Sacc. Syll. Fung. IX : 669.
Oligostroma Proteae Syd., H. & P. Sydow (1914 b) 265 ; Theissen & Sydow (1915) 592 ; Petrak (1924) 116 ; Sacc. Syll. Fung. XXIV : 615.
Euryachora maculiformis Nel (1942) 11.
on **Protea barbigera** Meisn., Kirstenbosch, *Eyles* (Stell. 50 ; v. d. Byl 1146).
Protea caffra Meisn., Diepkloof, near Dullstroom, *Doidge*, 931 ; Waterkloof Ravine, Pretoria, *Mogg*, 23492 ; Klapperkop, *Mogg*, 23392 ; Silverton Ridge, *Bottomley* 23389 ; Debbe's Ravine, *Bottomley*, 30424 ; Premier Mine, *K. M. Putterill*, 30433.
Protea cynaroides Linn., Montagu Pass., *Doidge*, 17130.
Protea Flanagani Phillips, Kentani, *Pegler 1899*, 5163, 5618, Kew.
Protea grandiflora Thunb., near Cape Town, *MacOwan* (Rabenh. Wint. Fung. Eur. 3056) Type, 3396, 21954, Kew.
Protea neriifolia R. Br., Bain's Kloof, *Doidge*, 1026, *Stoneman*, 2231.
Protea Roupelliae Meisn., near Mont-aux-Sources, *Doidge*, 23470. *Bottomley*, 23408.
Protea spp., Wellington, *Mally*, 1589 ; Lions Head, *Thomson*, 14678 ; Ceres, *Anderson* (Stell. 50 : v. d. Byl 1146).

Phaeosphaerella congregata (Syd.) Doidge

Doidge (1941 b) 205.
Parodiella congregata Syd., H. & P. Sydow (1912 a) 37 ; Sacc. Syll. Fung. XXIV : 250.
on **Limnanthemum Thunbergianum** Griseb., Belfast, *Doidge*, 765, Type

Pharcidia Psorae (Anzi) Winter

on **Lecidea** sp. (Sect. Psora) western slopes of Table Mt., *Garside*.

Physalospora Bylii du Pless.

du Plessis (1933 f) 209 ; Nel (1942) 24.
on **Aloe** spp., dead leaves, Stellenbosch, *du Plessis* (Stell. 810, 812, 814 ; v. d. Byl 2720).

Physalospora Cliviae Syd.

H. Sydow (1924 a) 237 ; Nel (1942) 24.
on **Clivia miniata** Regel, Hopefield, *v. d. Byl 1273*.

Physalospora obtusa (Schw.) Cooke

Hopkins (1938 a) 102, (1939 a) 37.
Physalospora Cydoniae Arnaud, Verwoerd (1929 b) 5 ; Hopkins (1930) 414 ; Doidge & Bottomley (1931) 6.
Physalospora malorum (Berk.) Shear, Nel (1942) 24.
See also *Sphaeropsis malorum* Peck ; the Physalospora stage is rarely found in South Africa.
on **Pyrus malus** Linn., Villiersdorp, *Pole Evans* (Stell. 615) 26574 ; Misgund East, *Bottomley*, 34404.

Physalospora Sapii Doidge

Doidge (1948 a) 862.

on **Sapium reticulatum** (Hochst.) Pax, Eshowe, *Laughton*, 33543, Type.

Pleomassaria gigantea Syd.

H. & P. Sydow (1914 b) 265 ; Doidge (1927 b) 229 ; Sacc. Syll. Fung. XXIV : 1046.

on **Euphorbia** sp., Amanzimtoti, *Doidge*, 6625, 1660, Type.

Pleomassaria Peddieae Doidge

Doidge (1927 b) 230.

on **Peddiea africana** Harv., Woodbush, *Doidge*, 17741, Type.

Pleospora Bilbergiae Verw. & du Pless.

Verwoerd & du Plessis (1931) 293 ; Nel (1942) 24.

on **Bilbergia** sp., Hopefield, *v. d. Byl 1293*, Type.

Pleospora Camelliae Dipp.

Dippenaar (1931 c) 287.

on **Camellia japonica** Linn., Stellenbosch, *Dippenaar* (Stell. 400, 934), Type.

Pleospora Dianthi de Not.

Verwoerd (1929 b) 9 ; Verwoerd & Dippenaar (1930 a) 329 ; Nel (1942) 24.

on **Dianthus caryophyllus** Linn., Stellenbosch, Verwoerd (Stell. 365), *Dippenaar* (Stell. 920) ; Somerset West, Frenchhoek, Riebeeck West, *Verwoerd* ; Stikland, *Dippenaar* (Stell. 508).

Pleospora disrupta McAlp.

on **Citrus sinensis** Osbeck, leaf, Wellington, *Dippenaar*.

Pleospora Doidgeae Petrak

Petrak (1927) 293.

Dictyochorella Andropogonis Doidge (1922 a) 66.

on **Phyllachora** ?**Doidgeae** Syd. on *Cymbopogon validus*, Tugela Valley, near Mont-aux-Sources, 14104, Type.

Pleospora Dyeri Doidge

Doidge (1948 a) 863.

on **Euphorbia triangularis** Desf., near Grahamstown, *Dyer*, 23615, Type.

Pleospora Gerberae Dipp.

Dippenaar (1931 c) 288.

on **Gerbera Burmanni** Cass., Stellenbosch, *Dippenaar* (Stell. 914), Type.

Pleospora gramineum Died.

Hopkins (1938 a) 102.

on **Cynodon transvaalensis** Burtt Davy, Bulawayo (Rh. 2260).

Pleospora herbarum (Pers.) Rabenh.

Verwoerd & du Plessis (1931) 294 ; du Plessis (1933 f) 210 ; Doidge & van der Plank (1936) 22 ; Hopkins (1938 a) 102 ; Nel (1942) 24.

as *Pleospora vulgatissima* Speg., Doidge & Bottomley (1931) 36.

on **Aloe** sp., dead leaves, Stellenbosch, *du Plessis* (Stell. 807 ; v. d. Byl 2722).

Allium Cepa Linn., dry stems, Riversdale, *du Plessis* (Stell. 469 ; v. d. Byl 2709).

Brassica oleracea Linn., Umtali, *Eyles 4278*.

Citrus sinensis Osbeck, isolated from rotting fruit from Rustenburg, Sundays River, Groot Drakenstein ; on dry spots on leaves, Boven Vallei, Wellington, 2535, 15449 ; on dead twigs, Mazoe, *Bates*, 33582.

Medicago sativa Linn., Stellenbosch, *du Plessis* (Stell. 509) ; Haenertsburg, *Parnell*, 712 ; Cape, *Lounsbury*, 997.

Pleospora Kentiae Maubl.

Dippenaar (1931 c) 287.

on **Caryota urens** Linn., Stellenbosch, *Verwoerd* (Stell. 403).

Kentia sp., Bloemfontein, *Verwoerd*.

Palmae undet., Groot Drakenstein, *Dippenaar 44* ; Frenchhoek, *Dippenaar* (Stell. 916).

Pleospora lanceolata (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. II : 251.

Sphaeria (*Pleospora*) *lanceolata* Kalchbrenner & Cooke (1880) 30.

on **Artemisia afra** Jacq., Somerset East, *MacOwan 1399 c*, Kew, Type.

Pleospora Oryzae Catt.

Cardoso (1945) 150.

on **Oryza sativa** Linn., on leaves, Bilene, *Oliveira* ; Umbeluzi, *Frias*.

Pleospora refracta (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. II : 243.

Sphaeria refracta Kalchbrenner & Cooke (1880) 30.

on **Artemisia afra** Jacq., Somerset East, *MacOwan 1399 b*, Kew, Type.

Pleospora Tropaeoli Halst.

Hopkins (1938 a) 102, (1939 a) 46.

on **Tropaeolum majus** Linn., Mazoe (Rh. 2304).

Pyrenophora Avenae Ito

isolated from **Avena sativa** Linn., stubble, Elsenburg, *Gorter*, 33362 ; Riversdale, *van Wyk* (Stell. 1043).

Pyrenophora graminea Ito

See *Helminthosporium gramineum* Rabenh. ; the perfect stage of this fungus has not been recorded from South Africa.

Pyrenophora horrida Syd.

H. Sydow (1924 c) 424 ; Nel (1942) 25.

on **Gramineae** undet., decaying glumes, Stellenbosch, *du Pisani* (v. d. Byl 1723), *Verwoerd* (Stell. 187).

Pyrenophora teres Drechsl.

See *Helminthosporium teres* Sacc. ; the perfect stage of this fungus has not been recorded in South Africa.

Rhynchosphaeria Fagarae Doidge

Doidge (1941 b) 211.
on **Fagara magalismontana** Engl., Boschfontein, *Doidge & Bottomley*, 31067, Type.

Sphaerella Cassinopsidis Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 31 ; Sacc. Syll. Fung. I : 498.
on **Cassinopsis capensis** Sond., near Somerset East, *MacOwan 1341*, Type (Rabenh. Wint. Fung. Eur. 3445) 3785, 21976, Kew.

Sphaerella geicola Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 30 ; Sacc. Syll. Fung. I : 505.
on **Geum capense** Thunb., Somerset East, *MacOwan 1148*, Type (as *Depazea geicola* Kalchbr. in S.A.M. 35086) Kew.

Sphaerella MacOwaniana Wint.

Winter (1884 c) 267 ; Sacc. Syll. Fung. IX : 630.
on **Melianthus major** Linn. leaves, Boschberg, *MacOwan 1266*, Type [always associated with *Phyllachora Melianthi* (Thuem.) Sacc.].

Sphaerella maculicola Wint.

Winter (1885 b) 28 ; Sacc. Syll. Fung. IX : 620.
on **Helichrysum** sp., Somerset East, *MacOwan*, Type.

Sphaerella Myrsinis Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 30 ; Sacc. Syll. Fung. I : 491 ; Nel (1942) 25.
on **Myrsine africana** Linn., Niginya, *Wylie* (Medley Wood 11235) 788, 10670, 13077, 31824, Kew ; Natal, *v. d. Byl 112* ; Nottingham Road, *v. d. Byl 599*, 31846 ; Somerset East, *MacOwan 1348*, Type, Kew.

Sphaerulina Eucalypti Verw. & du Pless.

Verwoerd & du Plessis (1931) 296.
on **Eucalyptus** sp., Tulbagh, *Dippenaar* (Stell. 472) Type.

Sphaerulina oleifolia v. d. Byl

van der Byl (1928 b) 186 ; Nel (1942) 25.
on **Olea capensis** Linn., Knysna, *v. d. Byl 2310*, Type.
Olea laurifolia Lam., Knysna, *v. d. Byl 2497*.

Sphaerulina Worsdelii Mass.

Massee (1910 b) 252.
on **Welwitschia Bainesii** (Hook f.) Carr., near Welwitsch, *Worsdell*, Type, Kew.

Titanella grandis Syd.

H. & P. Sydow (1919 a) 36 ; Doidge (1927 b) 230 ; Sacc. Syll. Fung. XXIV : 1047.
Pleomassaria grandis Syd., H. & P. Sydow (1914 b) 264.
on **Sideroxylon inerme** Linn., bark, Amanzimtoti, *Doidge*, 6622, Type.

Venturia Cephalariae Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 31 ; Sacc. Syll. Fung. I : 593 ; Doidge (1941 b) 204.
on **Cephalaria attenuata** (L. f.) R. & S., Somerset East, *MacOwan 1338*, Type 20813, Kew.

Venturia inaequalis (Cooke) Wint.

See *Fusicladium dendriticum* (Wallr.) Fuck. ; the perfect stage of this fungus has not been recorded from South Africa.

Venturia pirina Aderh.

See also *Fusicladium pirinum* (Lib.) Fuck. ; the perfect stage of this fungus is rarely found in South Africa.
on **Pyrus communis** Linn., Ida's Valley, Stellenbosch, *V. A. Putterill*, 15522.

Vestergrenia chaenostoma (Sacc.) Theiss.

Theissen (1918) 78 ; Doidge (1927 b) 229.
Physalospora chaenostoma Sacc., P. Sydow (1899 a) (132) ; Sacc. Syll. Fung. XVI : 460 ; Nel (1942) 24.
Haplodothis chaenostoma (Sacc.) Theissen (1916 b) 389.
Haplodothella chaenostoma (Sacc.) Werdemann (1923) 54 ; van der Byl (1926 c) 287.
as *Haplodothella chaetostoma*, Nel (1942) 108.
on **Maesa rufescens** A.DC., Natal, *Medley Wood 86*, 835, 11136 (sub *Auerswaldia scabies* in Herb. Kew) ; Winter's Kloof, *Doidge*, 1621 ; Maritzburg, *Doidge*, 8397 ; Town Bush Valley, *Doidge*, 15415 ; Claridge, *Doidge*, 14946 ; Buccleuch, *J. M. Sim*, 10147 ; Windy Hill, *v. d. Byl*, 6955 ; Eston, *v. d. Byl*, 8372 ; between Nylstroom and Warmbaths, *Pole Evans*, 17041 ; Woodbush, *Doidge*, 17747 ; Louis Trichardt, *V. A. Putterill*, 11839 ; Botha's Hill, *v. d. Byl 620* ; Zoutpansberg, *Burtt Davy*, 388, Kew ; Entabene, *Laughton*, 33595.

GNOMONIACEAE.

Cochliobolus stenospilus (Carp.) Matsum. & Yam.

See *Helminthosporium stenospilum* Drechsl. ; the perfect stage of this fungus has not been observed in South Africa.

Glomerella cingulata (Stonem.) Spauld. & v. Schrenk.

Doidge & Bottomley (1931) 6, 48, 54 ; Bates (1937 b) 176 ; Hopkins (1938 a) 101, (1939 a) 11, 19, 35, 37, 42 ; Hopkins & Bacon (1938) 453.
Glomerella rufomaculans (Berk.) Spauld, & v. Schrenk, Lounsbury (1910) 355.
? as *Glomerella* sp., Verwoerd (1929) b 7.
isolated from
Citrus Limonia Osbeck, from fruits and leaves of the Mazoe rough lemon, Mazoe, *Bates*.
Citrus maxima Merr., from fruits and leaves of the Marsh Seedless variety, Mazoe, *Bates*.
Citrus sinensis Osbeck, from rind section from surface of sterilised fruit, Mazoe, *Bates 66, 184*, 34011 ; very frequently isolated from outer rind tissues of fruit, and from leaves of practically all well known varieties of the sweet orange, Mazoe, *Bates*.
Mangifera indica Linn., from fruits and leaves, Mazoe, *Bates*.
Musa paradisiaca Linn. var. **sapientum** Ktze., from fruits, Mazoe, *Bates*.
Passiflora edulis Sims, from leaves, Mazoe, *Bates*, 34012.
Persea americana Mill., from fruits, Mazoe, *Bates*.
See also Gloeosporium and Colletotrichum spp. ; the perfect stage of these fungi was not found on host parts in situ but but developed in culture as indicated above.

Glomerella Glycines (Hori) Lehm. & Wolf

See *Colletotrichum Glycines* Hori ; the perfect stage of this fungus has not been observed in South Africa.

Glomerella Gossypii (South.) Edgert.

See *Colletotrichum Gossypii* South. ; the perfect stage of this fungus has not been recorded from South Africa.

Glomerella lindemuthianum (Sacc. & Magn.) Shear

See *Colletotrichum lindemuthianum* (Sacc. & Magn.) Bri. & Cav. ; the perfect stage of this fungus has not been recorded from South Africa.

Glomerella phacidiomorpha (Ces.) Petrak

Hopkins (1938 a) 101, (1939 a) 33.

on **Phormium tenax** Forsk., Salisbury (Rh. 2340) ; Richards Bay, *Wager*, 33441 ; Umhlatuzi, *Wager*.

Glomerella Psidii (Del.) Sheld.

See *Gloeosporium Psidii* Del. ; the perfect stage of this fungus has not been recorded in South Africa.

Gnomonia leptostyla (Fr.) Ces. & de Not.

See *Marssonina Juglandis* (Lib.) Magn. ; the perfect stage of this fungus has not been recorded from South Africa.

Ophiobolus graminis Sacc.

Verwoerd (1929 b) 28 ; Doidge & Bottomley (1931) 12, 67 ; K. M. Putterill (1940) 220.

as *Ophiobolus cariceti* (Berk. & Br.) Sacc., V. A. Putterill (1924) 602.

on **Triticum aestivum** Linn., Durbanville and Moorreesburg, *Verwoerd* ; Riversdale, *Dippenaar* (Stell. 899) ; Middelburg (Cape), Oudtshoorn, Mossel Bay, George, Malmesbury and Elliott districts, *V. A. Putterill* ; Durbanville, *V. A. Putterill*, 17787 ; Ida's Valley, Stellenbosch, *V. A. Putterill*, 17801 ; Dullstroom, *Viljoen*, 9303 ; Hartebeestpoort, *Sellschop*, 30874, 30875, 30989 ; Badfontein, *Pons*, 30920 ; Lydenburg District, *Pons*, 30863, 30919 ; Skeerpoort, *Scrooby*, 30992 ; Glen, *Shuttleworth*, 30993 ; Tamboers Kloof, Cape Town, *V. A. Putterill*, 17786.

Ophiobolus herpotrichus (Fr.) Sacc.

on **Avena sativa** Linn., Elsenburg, *Gorter* (Stell. 1050).

Ophiobolus Stipae Doidge

Doidge (1941 b) 212.

on **Stipa Dregeana** Steud. var. **elongata** Stapf, Xumeni Forest, *Morgan & Doidge* 29829.

Ophiobolus Urticae (Rabenh.) Sacc.

Saccardo, Syll. Fung. II : 338.

Sphaeria (*Rhaphidospora*) *Urticae* Rabenh., Kalchbrenner (1882 a) 146.

on **Urtica lobulata** E. Mey., Somerset East, *MacOwan 1405*.

LOPHIOSTOMATACEAE.

Lophodermium pinastri (Schrad. ex Fr.) Chev.

? on **Pinus radiata** Don., Stapleford Forest Reserve, *Hopkins* (Rh. 6171 a).

VALSACEAE.

Diaportheae.

Cryptosporella umbrina (Jenk.) Wehm.

Doidge (1941 a) 66.
See *Phomopsis* sp. ; the perfect stage of this fungus has not been found in South Africa.

Diaporthe Citri (Fawc.) Wolf

See *Phomopsis Citri* Fawcett ; the perfect stage of this fungus has not been found in South Africa.

Diaporthe perniciosa Marchal

Hopkins (1939 a) 39.
See *Phomopsis perniciosa* Grove ; the perfect stage has not been found in South Africa.

Pseudovalsa longipes (Tul.) Sacc.

Doidge (1941 b) 211.
Coryneum Kunzei Corda, Doidge l.c.
Calospora arausiaca (Fabr.) Sacc., van der Byl (1922 d) 284 ; Verwoerd (1929 b) 18 ; Doidge & Bottomley (1931) 41 ; Nel (1942) 23.
sub *Coryneum disciforme* Kunze & Schm., Verwoerd (1929 b) 18 ; Doidge & Bottomley (1931) 41.
on **Quercus** sp., Wellington, *Doidge*, 987, 2161, 2162, 2163 ; Groote Schuur, *Pole Evans*, 32203 ; Klapmuts, *v. d. Byl 736*.

Valseae.

Calosphaeria princeps Tul.

Pole Evans (1913 b) 174 ; Doidge (1941 a) 48.
on **Prunus armeniaca** Linn., Swinburne, *Petty*, 2237 ; Dundee, *Doidge*, 15499.
Prunus persica Sieb. & Zucc., Marianthall, *Pole Evans*, 5609 ; Parys, *Town Clerk*, 14107.
Pyrus communis Linn., without locality, *Pole Evans*, 35284.

Calospora Bottomleyae Doidge

Doidge (1941 a) 69.
on stems of plant undet., Trigaartspoort, *Bottomley & Doidge*, 31074 ; Swartdam, near Saltpan, Pretoria District, *Schaefer*, 34341.

Diatrype auristroma Doidge

Doidge (1941 a) 55, 70.
on **Xymalos monospora** Baill., Marwaqa Forest, *Morgan & Doidge*, 31073, Type ; Xumeni Forest, *Morgan & Doidge*, 28929.
Mimusops Zeyheri Sond., Boschfontein, *Doidge & Bottomley*, 31071.

Diatrype caminata Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 28 ; Berlese (1900) 92, T. CXIII f. 2 : Doidge (1941 a) 58.

on **Halleria lucida** Linn., branches, Knysna, *Bottomley*, 31059.

on branches of tree undet., Cape, *MacOwan 1263*, Type, 21997, 22003, 32088, Kew (sub *Sphaeronema pistillare* Wallr. in S.A.M. 35100).

Diatrype caulina Syd.

Sydow (1939 a) 184 ; Doidge (1941 a) 56.

on **Asparagus** sp., Dooley, near Mont-aux-Sources, *Doidge*, 13792, Type.

Diatrype conferta Doidge

Doidge (1941 a) 59, 71.

on dead branches of tree undet., Xumeni Forest, *Morgan & Doidge*, 30420, Type.

Diatrype congesta Kalchbr. & Cooke

? Nom. nud.

on branches, Cape (Kalchbrenner R. 23) 20951 b, Kew.

Diatrype Dovyalidis Doidge

Doidge (1941 a) 54, 71.

on **Dovyalis rhamnoides** (Burch.) Harv., Knysna, *Bottomley*, 31060, Type.

Diatrype Leonotidis Doidge

Doidge (1941 a) 58, 71.

on **Leonotis leonitis** R. Br., Hlabini, *Doidge*, 29821, Type.

Diatrype MacOwaniana Thuem.

von Thuemen (1878 a) 356 ; Sacc. Syll. Fung. I : 196 ; Doidge (1941 a) 56.

Diatrype capensis Kalchbrenner & Cooke (1880) 28, not as figured by Berlese ; Sacc. Syll. Fung. I : 195.

Diatrype Bona-spei Berlese (1900) 87, Tab. 106, f. 2.

on **Cassinopsis capensis** Sond., twigs, Boschberg, *MacOwan 1264*, Type, 20951 a, Kew.

Diatrype xumenensis Doidge

Doidge (1941 a) 54, 71.

on dead branches, Xumeni Forest, *Morgan & Doidge*, 28919.

Diatrypella Agaves Syd.

H. Sydow (1939 a) 186 ; Doidge (1941 a) 60.

on **Agave americana** Linn., The Willows, *Doidge & Bottomley*, 28899, Type.

Diatrypella Morganae Doidge

Doidge (1941 a) 61, 72, (1948 a) 865.

on **Citrus sinensis** Osbeck, branches, Mazoe, *Bates*, 33586.

on dry branches of tree undet., Hlabini, *Morgan & Doidge*, 29820, Type.

Diatrypella natalensis Doidge

Doidge (1941 a) 60, 72, (1948 a) 865.
on **Citrus nobilis** Lour. var. **deliciosa** Sw., Glen Echo, *Wayne*, 21006, Type.
Citrus sinensis Osbeck, Mazoe, Bates, 33581, 33583.

Diatrypella oligostroma Syd.

H. Sydow (1939 a) 187 ; Doidge (1941 a) 62.
on **Halleria lucida** Linn., Trigaartspoort, *Doidge & Bottomley*, 30379, Type ; Boschfontein, *Doidge & Bottomley*, 30896.

Diatrypella pretoriensis Doidge

Doidge (1941 a) 61, 72.
on **Cinnamomum Camphora** Nees & Eberm., Salisbury, *Bates* (Rh. 6762) 35294.
Populus sp., de Beers Rust, *Doidge*, 31072, Type.

Erostella quaternarioides (Berl.) Sacc.

Saccardo, Syll. Fung. XXII : 353 ; Doidge (1941 a) 49.
Togninia quaternarioides Berlese (1900) Tab. XIV f. 1 ; Sacc. Syll. Fung. XVI : 420.
on branches, South Africa, associated with *Peroneutypella cylindrica* (Kalchbr. & Cooke) Berl.

Eutypella Acaciae Doidge

Doidge (1941 a) 50, 73.
on **Acacia ataxacantha** DC., Kromrivier, *Doidge & Bottomley*, 30476, Type ; The Willows, *Doidge*, 33889.
Acacia mollissima Willd., Umfolozaan Plantation, Melmoth, *Laughton*, 33337.

Eutypella citricola Syd.

Doidge (1941 a) 52.
on **Citrus sinensis** Osbeck, Maritzburg, *Ackerman* (Rump 150) 28468 a.

Eutypella Doidgeae Syd.

H. Sydow (1939 a) 189 ; Doidge (1941 a) 53.
on **Halleria lucida** Linn., Trigaartspoort, *Doidge & Bottomley*, 30378 ; Type ; Boschfontein, *Doidge & Bottomley*, 30897.
on twigs of tree undet., Town Bush Valley, *Doidge*, 33966.

Eutypella Lycii Doidge

Doidge (1941 a) 50, 73.
on **Lycium echinatum** Dun., Aliwal North, *Pienaar*, 2094, Type.

Eutypella Mac Owani Doidge

Doidge (1941 a) 51, 73.
sub *Diatrype Durieui* Mont. in Herb. Kew.
on branches of tree undet., ? Somerset East *MacOwan 1334 b*, Type, 22005, Kew.

Eutypella stellulata (Fr.) Sacc.

Saccardo, Syll. Fung. I : 149 ; Hopkins (1938 a) 101, (1939 a) 38, (1939 c) 592 ; Doidge (1941 a) 52.

Valsa stellulata Fr., Medley Wood (1898) 19.

on **Pyrus malus** Linn., Concession, *Hopkins* (Rh. 3646) 31037.

on dry sticks, Inanda, *Medley Wood 574*, 9493, 11109, Kew.

Holstiella usambarensis P. Henn. forma

H. Sydow (1926) 271 ; Doidge (1941 a) 69.

on bark, Lourenço Marques, *Junod*, 12206.

Peroneutypella cylindrica (Kalchbr. & Cooke) Berl.

Berlese (1900) 82, Pl. C ; Doidge (1941 a) 63.

Ceratostoma cylindrica Kalchbrenner & Cooke (1880) 29.

Calosphaeria cylindrica (Kalchbr. & Cooke) Sacc. Syll. Fung. I 98.

on **Solanum auriculatum** Ait., dead branches, Xumeni Forest, *Morgan & Doidge*, 28918 31061, 31064, 34475 ; Woodbush, *K. M. Putterill*, 30753 ; Town Bush Valley, *Doidge* 33968.

on dead wood, Cape and Natal, comm. *MacOwan*, Kew.

Peroneutypella infinitissima (Kalchbr. & Cooke) Doidge

Doidge (1941 a) 64, (1948 a) 866.

Valsa infinitissima Kalchbrenner & Cooke (1880) 28 ; Sacc. Syll. Fung. I : 144.

on **Citrus sinensis** Osbeck, twigs, Mazoe, *Bates*, 33587.

on branches of tree undet., Somerset East, *MacOwan 1344 a* Type (Rabenh. Wint. Fung. Eur. 4359) 22006.

Pseudothis Pterocarpi Syd.

Theissen & Sydow (1915) 339 ; Petrak (1929) 330 ; Doidge (1941 a) 68 ; Hansford (1946 a) 136.

Systremma Pterocarpi Doidge (1922 a) 70.

on **Pterocarpus rotundifolius** (Sond.) Druce, Khami Ruins, *Bottomley*, 14101.

Pseudothyridaria moroides Syd.

H. Sydow (1939 a) 182.

on **Rubus pinnatus** Willd., stems, Xumeni Forest, *Morgan & Doidge*, 30374, Type, 30797.

Valsa leucostoma (Pers.) Fr.

Doidge & Bottomley (1931) 7, 9, 51 ; Hopkins (1938 a) 102, (1939 a) 38 ; Doidge (1941 a) 64 ; Sacc. Syll. Fung. XXIV 714.

on **Pyrus malus** Linn., Salisbury (Rh. 973).

Prunus salicina Lindl., branches, Henley on Klip, *Higginson*, 21585.

See also *Cytospora leucostoma* Sacc. ; conidial form common and widespread, perfect form rarely found in South Africa.

Valsa salicina (Pers.) Fr.

Kalchbrenner (1882 a) 146 ; Doidge (1941 a) 65.

as *Cytospora xanthosperma* Fr., von Thuemen (1877) 412 ; Sacc. Syll. Fung. III : 262.

on **Salix capensis** Thunb., Somerset East, *MacOwan 1283*.

Salix sp., Brakpan, *Bottomley*, 20469.

Valsa sordida Nitschke

Cytospora chrysosperma (Pers.) Fr., perfect stage rare.

on **Populus balsamifera** Linn., Cedara, *D.F.O.*, 22436.

Populus canescens Sm., Lyndoch, *D.F.O.*, 14477 ; Ingangwane Plantation, *D.F.O.*, 20298.

Populus sp., Vereeniging, *Brandmuller*, 26133.

Valsaria Batesii Doidge

Doidge (1948 a) 866.

on **Cinnamomum camphora** Nees. & Eberm., twigs, Salisbury, *Bates* (Rh. 6762) 35296, Type.

Valsaria Eucalypti (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. I 746 ; Doidge (1941 a) 66, (1948 a) 867.

Melogramma Eucalypti Kalchbrenner & Cooke (1880) 31.

on **Citrus maxima** Merr., Mazoe, *Bates*, 33588.

Eucalyptus globulus Lab., Somerset East, *MacOwan 1179* (S.A.M. 33848) 31036, Kew.

Prunus armeniaca Linn., Pretoria, *v. d. Merwe*, 34120.

on bark of tree undet., Xumeni Forest, *Morgan & Doidge*, 34123.

Valsaria natalensis Doidge

Doidge (1941 a) 67.

on **Solanum auriculatum** Ait., Xumeni Forest, *Morgan & Doidge*, 28931, Type, 30373.

MELOGRAMMATACEAE.

Botryosphaeria Ribis (Tode ex Fr.) Gross. & Dugg.

Doidge & van der Plank (1936) 16.

isolated from **Citrus sinensis** Osbeck, fruit, Pretoria, *Doidge*.

Var. **chromogena** Shear, Stev. & Wilc.

Doidge & Bottomley (1931) 6 ; Hopkins (1938 a) 101, (1939 a) 31, 36, 38, (1939 c) 592 ; Hopkins & Bacon (1938) 454.

Botryosphaeria Mali V. A. Putterill (1919) 264 ; Sacc. Syll. Fung. XXIV 813.

Dothiorella Mali Ell. & Everh., Doidge & Bottomley (1931) 6.

on **Pyrus malus** Linn., Vereeniging, *V. A. Putterill*, 12448, 12449, 12450, *Brandmuller*, 23674 ; Lichtenburg, *Terry*, 12493 ; M'soneddi (Rh. 3673, 3755) ; Inyanga (Rh. 3802) ; Umtali Bulawayo, Salisbury, *Hopkins*.

Persea americana Mill., Salisbury, Penhalonga *Hopkins*.

Psidium Guajava Linn., Salisbury, *Hopkins* ; Nelspruit, *Loest*, 34193, 34233.

? **Rosa** sp., twigs, Knysna, *Laughton*, 34180, 34221.

Botryosphaeria Vitis (Schulz.) Sacc.

du Plessis (1940) 39.

on **Vitis vinifera** Linn., Banhoek, Stellenbosch, *Buller* (Stell. 662).

Melanops Perseae (Doidge) Petrak

Petrak (1934) 399 ; Hopkins (1939 a) 31.

Physalospora Perseae Doidge (1922 b) 179 ; Hopkins (1930) 414, (1938 a) 102 ; Doidge & Bottomley (1931) 10.

on **Persea americana** Mill., Schoonuitzicht, Louis Trichardt, *Banks*, 14649, 15426, Type ; Penhalonga, *Hopkins*, 31051 ; Umtali (Rh. 551) ; Shamva (Rh. 1260) ; Salisbury (Rh. 2609).

XYLARIACEAE.

Daldinia Bakeri Lloyd

Stevenson & Cash (1936) 6.
without locality, *J. M. Sim & A. J. T. Janse* (Lloyd Myc. Coll.)

Daldinia concentrica (Bolt. ex Fr.) Ces. & de Not.

Lloyd (1912 b) L. 42 : 8 ; (1914) L. 49 : 6, (1915 a) L. 60 : 3, (1916 d) L. 63 : 4, (1919 b) 24 ; van der Byl (1925 b) 192, (1926 c) 287, (1932 b) 5 ; J. Phillips (1931) 160 ; Hopkins (1938 a) 101 ; Miller (1942) 252 ; Nel (1942) 22, Simpson & Talbot (1946) 132.

Hypoxylon concentricum Fr., Kalchbrenner (1882 a) 146.
on **Acacia decurrens** Willd., Cramond, *Pole Evans*, 1335.
Acacia melanoxylon R. Br., Knysna, *D.F.O.*, 12795.
Copaifera Gorskiana Benth., Inhambane, Kew.
Gymnosporia peduncularis L. Bolus, Deepwalls, *J. Phillips*, 18042.
Halleria lucida Linn., Glebe Forest, Knysna, *J. Phillips*, 17804.
Homalium sp., Qudeni Forest, *Simpson & Talbot*, 34942.
Olea foveolata E. Mey., Gxoqxowe Forest, *D.F.O.*, 9136.
Olea laurifolia Lam., Knysna, *J. Phillips*, 18043.
Royena lucida Linn., Somerset East, *D.F.O.*, 17790.
on dead wood of trees undet., Boschberg, *MacOwan 1081* (de Thuem. Myc. Univ. 696 ; S.A.M. 33842) 22048, 21951, Kew ; Kaffraria, *Baur 697* ; George, *Verwoerd*, (Stell. 230) ; Knysna, *Duthie 86*, 31342 ; Cape, without locality, *v. d. Byl 767*, 31949 ; Fishhoek, *E. L. Stephens*, 24836 ; Xumeni Forest, *Morgan & Doidge*, 27724, 28912, 30265 ; Hopevale, *Morgan*, 27750 ; nr. Mont-aux-Sources, *Doidge*, 13791, 23396 ; Caverns, nr. Mont-aux-Sources, *Bottomley*, 28890 ; Marwaqa Forest, *Morgan & Doidge*, 30836 ; Town Bush Valley, *Rump 240*, 28306 ; Maritzburg, *H. A. Wager*, Kew ; Natal, without locality, *J. M. Sim*, 11626 ; Karkloof, *Doidge*, 14841, *Platt*, 32005 ; Bulwer, *Landsdell*, 12848 ; Woodbush, *v. d. Byl* 8975, *Wager*, 23231 ; Fountains Valley, *Hean*. 30713 ; Rikatli, *Junod*, 11681 ; Umtali, *Eyles 4228* ; without locality, 11633.

Daldinia Eschscholzii (Ehr. ex Fr.) Rehm.

Miller (1942) 252.

Daldinia concentrica var. *Eschscholzii* Ehrenb. ex Fr., Torrend (1905) 221.
on **Celtis Kraussiana** Bernh., Lusikisiki, *D.F.O.*, 6927.
Croton sp., Komatipoort, *Pole Evans*, 11013.
Heteromorpha trifoliata E. & Z., Potchefstroom, *J. Phillips*, 30717.
on wood, Moçambique (Torrend).

Hypoxylon argillaceum Fr. non Pers.

Kalchbrenner (1882 a) 146 ; Miller (1942) 259.
Somerset East, *MacOwan*.

Hypoxylon deustum (Hoffm. ex Fr.) Grev.

van der Byl (1932 b) 8 ; Miller (1942) 255 ; Simpson & Talbot (1946) 132.
on wood, usually old stumps, Kromrivier, *Doidge & Bottomley*, 32146 ; Eshowe, *van der Byl 494, 501, 691, 704* ; Stella Bush, Durban, *v. d. Byl 1065* ; Woodbush, *v. d. Byl 1486* ; Garden of Eden, Knysna, *E. L. Stephens 387*, 34941 ; Qudeni Forest, *Simpson & Talbot*, 34941.

Hypoxylon exutans Cooke

Kalchbrenner (1882 a) 146 ; Miller (1942) 255 ; Simpson & Talbot, (1946) 132.
as *Hypoxylon punctulatum* Berk. & Rav., van der Byl (1932 b) 9 ; Miller (1942) 259.
as *Nummularia punctulatum* (Berk. & Rav.) Sacc., van der Byl (1925 b) 192 ; *J. Phillips* (1931) 160 ; Nel (1942)24.
on **Acacia mollissima** Willd., Town Bush Valley, *Rump 119*, 27765.
on wood of tree undet., Bazuja, *Baur 704*, Kew ; Xumeni Forest, *Morgan & Doidge*, 27725, 28936 ; Knysna, *v. d. Byl 713*, *2233* ; Hogsback, *Giffen*, 34053 ; Qudeni Forest, *Simpson & Talbot*, 34938 ; Town Bush Valley, *Rump*, 27794.

Hypoxylon fuscum (Pers.) Fr.

von Thuemen (1876 b) 568 ; Sacc. Syll. Fung. I : 361 ; Lloyd (1916 d) L. 63 : 4 ; van der Byl (1932 b) 6 ; Miller (1942) 259.
on wood, nr. Somerset East, *MacOwan 1261* (S.A.M. 33847) Kew.
Knysna specimens quoted by Lloyd and van der Byl are *H. truncatum* (Miller l.c.).

Hypoxylon Gilletianum Sacc.

Miller (1942) 254.
Hypoxylon africanum van der Byl (1928 a) 185, (1932 b) 6 ; Nel (1942) 23.
as *Hypoxylon multiforme* Fr., Lloyd (1920) 960.
on bark and wood, Durban, *v. d. Byl 598* ; Umgeni Bush, *Rump 365*, *379*, 30173, 30185 ; Krantzkloof, *Doidge*, 9104 ; Forest Hall, Knysna, *Duthie 221*, 31409 ; Fern Kloof, *Archibald*, 33377.

Hypoxylon glomeratum Cooke

Miller (1942) 256 ; Simpson & Talbot (1946) 132.
on wood, Town Bush Valley, *Rump 105*, 27682, 27794 ; Xumeni Forest, *Morgan & Doidge*, 28935, 28921 ; Qudeni Forest, *Simpson & Talbot*, 34940.

Hypoxylon haematostroma Mont.

Miller (1942) 257.
on wood, Knysna, *Bottomley*, 30748, 31058.

Hypoxylon hypomiltum Mont.

Miller (1942) 257 ; Simpson & Talbot (1946) 132.
as *Hypoxylon rubiginosum* (Pers.) Fr., Cooke & Kalchbrenner (1881) 27.
on wood, Inanda, *Medley Wood 523*, 10390 ; Winter's Kloof, *Rump*, 27532 ; Caverns nr. Mont-aux-Sources, *Bottomley*, 28893 ; Xumeni Forest, *Morgan & Doidge*, 28920 ; Knysna, *Bottomley*, 30746 ; Bulwer, *Rump*, 33181 ; Qudeni Forest, *Simpson & Talbot*, 34936.

Hypoxylon malleolus Berk. & Rav.

Hopkins (1931 c) 664, (1938 a) 102 ; Miller (1942) 259.
? on **Brachstegia** sp., on stump, Shamva (Rh. 1254).
Berlinia sp., Rhodesia, *Hopkins*.
This is probably *H. Gilletianum* (Miller l.c.).

Hypoxylon mediterraneum (de Not.) Miller

Miller (1942) 254.
Nummularia clypeus Cooke (non Schw.) Wakefield (1936) 53 ; Nel (1942) 24.
as *Hypoxylon clypeus* (Schw.) van der Byl (1932 b) 8 ; Nel (1942) 108.

on **Quercus** sp., on wood, Stellenbosch, *v. d. Byl 1303*.
Salix sp., on dry wood, Lady Grey, *R. Nel* (v. d. Byl 1727) ; Dordrecht, *Grobbelaar* (v. d. Byl 2449) ; Mamathes, *Hean*, 33243.
on wood of tree undet., Deepwalls, *Hφeg 79*.

Hypoxylon natalense Berk.

Lloyd (1923) 1254 ; Miller (1942) 259.
Port Natal, ex Herb. Berk. in Herb. Kew ; no specimen cited by Lloyd.

Hypoxylon rubiginosum Pers. ex Fr.

Miller (1942) 258 ; Torrend (1905) 221.
on **Mimusops Zeyheri** Sond., Boschfontein nr. Wolhuter's Kop, *Doidge & Bottomley*, 31068, 31069.
on wood, Town Bush Valley, *Rump 188*, 28569 ; Boschfontein, *Doidge & Bottomley*, 32150 ; Inanda, *Medley Wood 523*, Kew ; Randfontein Estates, *Lurie*, 2874€ ; Moçambique (Torrend).

Hypoxylon serpens Pers. ex Fr.

Hypoxylon colliculosum Nitschke, Cheesman (1909) 412 ; Miller (1942) 259.
Victoria Falls, Palm Kloof, *Cheesman*.

Hypoxylon Stygium (Lév) Sacc.

Miller (1942) 253.
on wood, Town Bush Valley, *Rump 106*, 27760.

Hypoxylon suborbiculare Welw. & Curr.

Welwitsch & Currey (1868) 281 ; Sacc. Syll. Fung. I : 399.
Nummularia suborbiculare Sacc. Syll. Fung. I : 399 ; Lorrain Smith (1901) 476.
in woods, between Monimo and Lake Ivantâla, *Welwitsch 137*.

Hypoxylon truncatum (Schw. ex Fr.) Miller

Miller (1942) 254.
as *Hypoxylon annulatum* Mont., Cheesman (1909) 412 ; van der Byl (1932 b) 8 ; Nel (1942) 23.
as *Hypoxylon fuscum* Pers., ex Fr., Nel (1942) 23.
on bark and rotting wood, Victoria Falls, *Cheesman* ; Knysna, *Bottomley*, 30745, *v. d. Byl 1340, 2756* ; Forest Hall, Knysna, *Duthie 148* (v. d. Byl 1701) 31372 ; Xumeni Forest, *Doidge*, 32148 : Lundie's Hill, *Morgan & Doidge*, 34237 ; without locality, *v. d. Byl 2238, 2247*, Kew.

Kretzschmaria cetrarioides (Welw. & Curr.) Sacc.

Sacc. Syll. Fung. II : XIX ; Miller (1942) 259.
Hypoxylon cetrarioides Welw. & Curr. (1868) 282.
Sphaeria lichenoides Berk., Nom. nud. in Herb. Kew.
on wood, Port Natal, Kew (as *Sphaeria lichenoides*) ; Xumeni Forest, *Morgan & Doidge*, 27726.

Kretzschmaria knysnana v. d. Byl

van der Byl (1932 b) 5 ; Miller (1942) 259 ; Nel (1942) 23.
on rotting wood, Knysna, *v. d. Byl 2549*, Kew.

Kretzschmaria micropus Fr.

van der Byl (1932 b) 4 ; Miller (1942) 260 ; Nel (1942) 23.
on wood, Knysna, *v. d. Byl 2249*, Kew ; Eshowe, *v. d. Byl 500*.

Nummularia Kalchbrenneri (Sacc.) Miller

Miller (1942) 260.
Hypoxylon placenta Kalchbr. (non Link & Fr.) Kalchbrenner & Cooke (1880) 28.
Hypoxylon Kalchbrenneri Sacc. Syll. Fung. I : 364.
Nummularia placenta Cooke (1883 a) 8.
Nummularia lepida Syd., H. Sydow (1924 c) 425 ; van der Byl (1925 b) 192 ; J. Phillips (1931) 160 ; Nel (1942) 24.
Hypoxylon lepidum v. d. Byl (1932 b) 7.
on **Gonioma Camassi E.** Mey., rotten trunk, Knysna, *v. d. Byl 1341*.
on wood, Somerset East, *MacOwan 1304*, Type (S.A.M. 33839) 20818, Kew.

Nummularia uni-apiculata Penz. & Sacc.

on wood, Xumeni Forest, *Morgan & Doidge*, 30256 (det. Miller).

Penzigia discolor (Berk. & Br.) Miller

Miller (1942) 261.
on dead wood, Xumeni Forest, *Morgan & Doidge*, 31062, ? 32149 ; Umtali, *Eyles 4246* (v. d. Byl 2413).

Penzigia verrucosa Miller

Miller (1942) 261.
on fallen log, Woodbush, *Doidge*, 17793 ; ? Vumba Mts., *Masseurs*, 33950, 33951.

Poronia oedipus Mont.

Kalchbrenner (1882 a) 145 ; van der Byl (1932 b) 4 ; Miller (1942) 261.
on cow dung, Boschberg, *MacOwan 1300*, (S.A.M. 33866, sub *P. macropus* Kalchbr.) Kew.

Poronia punctata Linn. ex Fr.

Cooke (1879 b) 72 ; Sacc. Syll. Fung. I : 348 ; Lloyd (1917 a) L. 66 : 3 ; Miller (1942) 262.
on horse dung and sheep droppings, Inanda, *Medley Wood 404*, 11131, Kew ; Mulder's Vlei, *A. Acocks* (E. L. Stephens 321) 27663 ; van Schoor's Drift, *A. Acocks* (E. L. Stephens 322, 325, 328) 27664 ; nr. Bettelary Road, *J. Acocks* (E. L. Stephens 323) ; Klapmuts, *J. Acocks* (E. L. Stephens 324) 27670 ; Brakenfel, A. Acocks (E. L. Stephens 326) ; Bellville, A. Acocks (E. L. Stephens 327) ; nr. Worcester, *P. C. de Kock* (E. L. Stephens 542) ; Imhoff's Gift, nr. Kommetje, *E. L. Stephens 543* ; Zwartklip, Cape Flats, *J. Acocks* (E. L. Stephens 544) ; nr. Leopoldville, *E. L. Stephens 545* ; Alpha, nr. Olifants Rivier Dam, *E. L. Stephens 546* ; Hondjeskuil, *J. Acocks*, 28632 ; Knysna, *Duthie 176*, 31383 ; Silverton Road, *Pole Evans*, 8809.

Poronia ustorum Pat.

Torrend (1905) 221.
Moçambique (Torrend).

Rosellinia aquila (Fr.) de Not.

Cheesman (1909) 412 ; Miller (1942) 262.

as *Rosellinia* sp., Nel (1942) 25.

on **Rubus pinnatus** Willd., on old stem, Xumeni Forest, *Morgan & Doidge*, 31065.

on wood, Knysna, *v. d. Byl 2226* ; Klip River, Ladysmith, *Cheesman* ; Xumeni Forest, *Morgan & Doidge*, 31063 ; along Aapies River, nr. Zoo, Pretoria, *Scott*, 33910 ; Dombashawa, *v. d. Byl 2548*.

Rosellinia subiculata (Schw.) Sacc.

on dead wood, Kidd's Beach, *Schaefer*, 34106 (det. Miller).

Ustulina vulgaris Tul.

Lloyd (1922) 1122, (1924) 1294 ; van der Byl (1926 c) 287 ; Doidge & Bottomley (1931) 41 ; Nel (1942) 25.

on **Quercus Robur** Linn., Stellenbosch, *Verwoerd* (Stell. 140).

on decaying wood, Stella Bush, *v. d. Byl 1065* ; Eshowe, *v. d. Byl 494, 501, 691, 704* ; Woodbush, *v. d. Byl 1486*.

Xylaria allantoidea Berk.

Hopkins (1938 a) 102, (1939 a) 8 ; Miller (1942) 270.

on **Brachystegia Randii** Bak., on stem, Umtali (Rh. 248, 1002) Kew.

Xylaria anisopleura Mont.

van der Byl (1921 a) 183 ; Miller (1942) 269 ; Nel (1942) 25.

on dead wood, Winter's Kloof, *Doidge*, 2551 ; Durban, *v. d. Byl 212, 580, 601*, 31853 ; Vumba Mts., *Masseurs*, 33949.

Xylaria arbuscula Sacc.

Miller (1942) 265.

as *Xylaria apiculata* Cooke, van der Byl (1921 a) 182, (1925 b) 192 ; J. Phillips (1931) 160 ; ? Hopkins (1938 a) 102 ; Nel (1942) 25.

on wood and bark, Winter's Kloof, *Doidge*, 2166 ; Natal, *Medley Wood 324*, 11138 ; Rikatli, *Junod*, 11540 ; Xumeni Forest, *Morgan & Doidge*, 27729, 30475 ; Nottingham Road, *v. d. Byl 541*, 31806; Elim, *Watson*, 28484; Fountains Valley, *Bottomley & Landsdell*, 28621 ; Durban, *v. d. Byl 581*, 31985 ; Knysna, *v. d. Byl 729* ; Salisbury, *Eyles 1606* (v. d. Byl 2354) 12221 ; Hogsback, *Giffen*, 33589.

on damp soil, Fountains Valley, *Reinecke*, 23170.

Xylaria aristata Mont.

Miller (1942) 268.

on dead leaves, Fountains Valley, *Parkes*, 21199.

Xylaria bulbosa (Pers. ex Fr.) Berk. & Br.

Miller (1942) 266.

on wood, Pillansberg, *Wager*, 23613 ; Eshowe, *Laughton*, 33340 ; ? Hogsback, *Giffen*, 33591.

Xylaria capensis (Lév.) Sacc.

Sacc. Syll. Fung. II : xx, IX ; 529 ; Miller (1942) 270.

Sphaeria (*Cordyceps*) *capensis* Léveillé (1848) 141.

on trunks, Cape of Good Hope.

Xylaria carpophila Pers. ex Fr.

P. Hennings (1892) 366 ; Miller (1942) 270.
on fruit of **Strychnos** sp., in thick bush, near Tugela River.

Xylaria castorea Berk.

Lloyd (1923) 1186 ; van der Byl (1924 a) 207 ; Hopkins (1938 a) 102 ; Miller (1942) 269 ; Nel (1942) 25.
on **Millettia Sutherlandi** Harv., St. John's, D.F.O., 6929.
on wood of trees undet., Eshowe, *Rump 385 b*, 30239 ; Durban, *v. d. Byl 795*, *899* ; Umtali, *v. d. Byl 2355* ; Vumba Mts., *Masseurs*, 33948 ; Pirie Forest, *Archibald*, 34232.
on wood (sub *X. corniformis* in Herb. v. d. Byl) Knysna, *Duthie* (v. d. Byl 1103) ; Garden of Eden, Knysna, *v. d. Byl 2224*, Kew ; Knysna, v. d. Byl 2254, 2260, Kew.
on rotten wood (sub *X. hippoglossa* in Herb. v. d. Byl) Knysna, *v. d. Byl 1329* (Lloyd Myc. Coll. 11874).
on ground near **Acacia mollissima** Willd., without locality (T.R.L. 1684).

Xylaria corniformis Fr.

van der Byl (1924 a) 207, (1925 b) 192 ; J. Phillips (1931) 160 ; Miller (1942) 271 ; Nel (1942) 25.
see *X. castorea*.

Xylaria cubensis Mont.

Miller (1942) 264.
on wood, Eshowe, *Rump 385 a*, 30238 ; Hogsback, *Giffen*, 33590.

Xylaria digitata (Linn. ex Fr.) Grev.

Welwitsch & Currey (1868) 2€ ; Lloyd (1920) 1010 ; Miller (1942) 271.
on wood, Mossamedes, *Welwitsch 136 b* ; Hennops River, *v. d. Byl*, 8976.

Xylaria Doumetii (Pat.) Miller

Miller (1942) 264.
Poronia Doumetii Pat., Lloyd (1923) 1186.
on soil, Armoedsvlakte, *Mogg*, 15422 ; Hondjieskuil, *Acocks*, 28631.
on dead roots in ploughed ground, Kuruman, *Acocks*, 28630, Kew.

Xylaria ensata Kalchbr.

in Herb. S. A. Museum, nom. nud.
on decaying wood, Boschberg, *MacOwan 1204* (S.A.M. 33857).

Xylaria fistulosa (Lév.) Fr.

Lloyd (1915 a) L. 60 : 3 ; Miller (1942) 271.
on rotting log, Knysna, *Duthie 51*.

Xylaria heloidea Penz. & Sacc.

Miller (1942) 268.
on **Strychnos** sp., on rind of fruit, Rikatli, *Junod*, 11618.

Xylaria hippoglossa Speg.

Lloyd (1924) 1294 ; van der Byl (1925 b) 193 ; J. Phillips (1931) 160 ; Nel (1942) 25 ; Miller (1942) 271.

see *X. castorea.*

Xylaria Hypoxylon (Linn. ex Fr.) Grev.

Cooke (1879 b) 72 ; Medley Wood (1898) 19 ; Pole Evans & Bottomley (1918) 187 ; Lloyd (1922) 1124 ; Miller (1942) 267.

Hypŏxylon cornutum Hoffm., Montagne (1847) 175 ; Miller (1942) 259.

Sphaeria Hypoxylon Linn., Thunberg (1800) 183, (1823) 756.

? on rotten wood, Cape, *Thunberg* ; Inanda, *Medley Wood 342*, 11107, 11208, *Medley Wood 402*, 11108 ; Kentani, *Pegler 1372*, 8420 ; Town Bush Valley, *Rump 199*, 27777.

Xylaria ianthino-velutina Mont.

Miller (1942) 266.

as *Xylaria multiplex* (Kunze) Fr., Lloyd (1920) 952, 1010 ; van der Byl (1921 a) 182 ; Nel (1942) 26.

on **Strychnos Gerrardi** N. E. Br., on fallen fruits, Stella Bush, *Bottomley*, 12315, *v. d. Byl*, 31990.

on ? bark (substrate unrecognizable) Xumeni Forest, *Morgan & Doidge*, 27727.

Xylaria multiplex (Kunze ex Fr.) Berk. & Curt.

Miller (1942) 265.

on bark and wood, Buccleuch, *Leighton*, 11694 ; Boschfontein, nr. Wolhuterskop, *Doidge & Bottomley*, 32151 ; Marwaqa Forest, *Doidge*, 32152.

Xylaria Myosurus Mont.

Lloyd (1923) 1186 ; van der Byl (1924 a) 208 ; Miller (1942) 271 ; Nel (1942) 26.

? on wood, Eshowe, *v. d. Byl 798* (Lloyd Myc. Coll. 12773).

Xylaria nigripes (Klotzsch) Cooke

Lloyd (1920) 1010 ; Miller (1942) 269.

Sclerotium stipitatum Berk. & Curr., Welwitsch & Currey (1868) 292 ; Medley Wood (1898) 18.

amongst grass, Botanical Gardens, Durban, *Medley Wood*, 7766, 9498 (fertile).

on comb of **Odontotermes badius** Hav., Daspoort, *Kresfelder*, 20368 ; without locality, *Fuller*, 11327.

in old termite nests, Pretoria, *Pole Evans*, 8808, *Lurcock*, 20468 ; Wolhuter's Kop, *Maynard*, 15425 ; Standerton, *Murray*, 29712 ; Maritzburg, *Fuller*, 1900 (fertile) ; Toowoomba, *Irvine*, 28646 (fertile); Stegi, *Way*, 21029 ; Durban, *McClean*, 23623 ; Botha's Hill, *Sparkes*, 32040 ; Pyramids, *Nourse*, 20454 ; Utrecht, *v. d. Spuy*, 30930 ; Highflats, *Waller*, 18021 ; Natal, 2325 and *Medley Wood* 3526

near roots of dying trees, nr. Lopille, *Welwitsch* 138.

Xylaria Oxyacanthae Tul.

Miller (1942) 267.

on fruits, Fountains Valley, *Bottomley*, 20391 ; Pretoria, *Dyer*, 30253.

Xylaria polymorpha (Pers. ex Fr.) Grev.

Kalchbrenner (1882 a) 146 ; Torrend (1905) 221 ; Lloyd (1917 a) L. 66 : 2 ; van der Byl (1921 a) 183 ; J. Phillips (1931) 160 ; Miller (1942) 270.

Xylaria pistillaris Nitzschke, Lloyd (1920) 1010.

on **Ocotea bullata** E. Mey., on stump, Knysna, *Laughton* (v. d. Byl 253) Kew.

Royena lucida Linn., Amatola Mts., *Keet*, 9046.

on wood, Somerset East, *MacOwan 1087* (S.A.M. 33864) 22078, Kew ; Buccleuch, *Leighton*, 11695 ; Eshowe, *Rump 385 b*, 30239, *Laughton*, 33342, 33343 ; Bluff, Durban, *Moonsamy* (v. d. Byl 365) 31704 ; Durban, *v. d. Byl 213, 310* ; ? Natal, *Medley Wood 703*, Kew ; Xumeni Forest, *Morgan & Doidge*, 27730, 30796, 32510 ; Town Bush Valley, *Rump 112*, 27781 ; Woodbush, *Hume*, 28263 ; Malelane, *Hall*, 9745 ; Moçambique (Torrend).

Xylaria reticulata Lloyd

Lloyd (1924) 1318, (1925) 1354 ; van der Byl (1925 b) 193 ; J. Phillips (1931) 160 ; Stevenson & Cash (1936) 17 ; Miller (1942) 265 ; Nel (1942) 26.

on rotten wood, Knysna, *van der Byl 1350* (Lloyd Myc. Coll. 10369, Type).

Xylaria rhopaloides Mont.

Cooke (1879 b) 72 ; Kalchbrenner (1882 a) 145 ; Medley Wood (1898) 19 ; Lloyd (1917) a L. 67 : 5, (1924) 1282, 1294 ; Miller (1942) 271.

on stumps, Natal, *Medley Wood 346*, 11137, Kew ; Stellenbosch, *v. d. Byl*, (Lloyd Myc. Coll. 11887).

Xylaria Schreuderiana v. d. Byl

van der Byl (1932 b) 3 ; Miller (1942) 268 ; Nel (1942) 26.

on dead wood, Knysna, *v. d. Byl 1365*, Type, Kew.

Xylaria Schweinitzii Berk. & Curt.

Lloyd (1919 c) 892, (1922) 1162 ; van der Byl (1924 a) 208, (1925 b) 193 ; J. Phillips (1931) 160 ; Miller (1942) 271 ; Nel (1942) 26.

? on rotting wood, Knysna, *v. d. Byl*.

Xylaria stilboidea Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 28 ; Sacc. Syll. Fung. I : 320 ; Miller (1942) 271.

on wood, Somerset East, *MacOwan 42*, Kew.

Xylaria tabacina (Kickx) Berk.

van der Byl (1924 a) 208, (1925 b) 193 ; Lloyd (1918 c) 3, 4, (1922) 1162 ; J. Phillips (1931) 160 ; Miller (1942) 264 ; Nel (1942) 26.

on **Olea** sp., Knysna, *J. Phillips* (v. d. Byl 2335).

Podocarpus latifolius R. Br., Knysna, *Duthie* (v. d. Byl 1104).

on dead wood of trees undet., Knysna, Keet (v. d. Byl 710) ; Garden of Eden, Knysna, *v. d. Byl 2256*.

Xylaria vaporaria Berk. & Curr.

Miller (1942) 268.

as *Xylaria* sp., Doidge & Bottomley (1931) 22.

in **Chrysanthemum** beds, Krantzpoort, Ermelo, *de Villiers*, 2169, 5031.

in mushroom beds, Durban, *African Mushroom Industries*, 30922.

near **Cupressus macrocarpa** Hartw., Ermelo, *de Villiers*, 2168.

Xylaria variabilis Welw. & Curr.

Welwitsch & Currey, (1868) 280 ; Lloyd (1923) 1186 ; van der Byl (1924 a) 208 ; Miller (1942) 265 ; Nel (1942) 26.

on burnt stump, Durban, *v. d. Byl 771.*

PHYLLACHORACEAE.

Anthostomella africana (Kalchbr. & Cooke) Berl. & Vogl.

Saccardo, Syll. Fung. IX : 509.

Sphaëria africana Kalchbrenner & Cooke (1880) 29.

on herbaceous stems, **Artemisia** sp., etc., Somerset East, *MacOwan 1399, 1400*, Type, Kew.

Anthostomella capensis Doidge

Doidge (1948 a) 864.

on **Phoenix dactilifera** Linn., leaves, Port Elizabeth, *Doidge*, 1236, Type.

Anthostomella Cassinopsidis (Kalchbr. & Cooke) Rehm

Rehm (1906) 441 (1907) 545, erronee *A. Cassionopsidis* ; Sacc. Syll. Fung. XXII : 95.

Diplodia Cassinopsidis Kalchbrenner & Cooke (1990) 19 ; Sacc. Syll. Fung. III : 333.

Sphaeropsis Cassinopsidis (Kalchbr. & Cooke) Pazschke (1905) (178).

Anthostomella Cassinopsidis (Kalchbr. & Cooke) Petrak & Sydow (1925) 216.

on **Cassinopsis capensis** Sond., stems, Somerset East, *MacOwan 1264*, Type (Rabenh. Wint. Fung. Eur. 4488) Kew.

Anthostomella nigro-annulata (Berk. & Curt.) Sacc.

Saccardo, Syll. Fung. I : 279.

Sphaeria nigro-annulata Berk. & Curt., Kalchbrenner & Cooke (1880) 30.

on **Aloe lineata** Haw., Somerset East, *MacOwan 1312.*

Anthostomella Salaciae Doidge

Doidge (1948 a) 864.

on **Salacia Gerrardi** Harv., Eshowe, *Laughton*, 33546, Type.

Clypeosphaeria natalensis Doidge

Doidge (1922 a) 81.

on **Viscum nervosum** Hochst., Highflats, *Bews*, 14867, Type.

Diachora Lessertiae (Doidge) Petrak

Petrak (1934) 349 ; Doidge (1942 b) 459.

Phyllachora Lessertiae Doidge (1921 c) 30.

on **Lessertia depressa** Harv., Smitskraal, *Burtt Davy*, 1568.
Lessertia perennans DC., Mooi River, *Mogg*, 17038.
Lessertia stricta Bolus, Nottingham Road, *McClean*, 32285.

Endodothella Deightonii Syd.

H. Sydow (1938) 162 ; Doidge (1942 b) 457.

Phyllachora Albizziae Cooke, (1885) 65.

Dothidea viventis var. *Albizziae* Cooke (1885) 65.

Homostegia Albizziae (Cooke) Berl. & Vogl., Sacc. Syll. Fung. IX : 1049.

sub *Phragmocauma viventis* (Cooke) Theissen & Sydow (1915) 411 ; Doidge (1921 c) 27 ; Sacc. Syll. Fung. XXIV : 621 ; Doidge & Bottomley (1931) 24.

as *Telimena viventis* ?, Nel (1942) 13.

on **Albizzia gummifera** (Gmel.) C. A. Smith, Inanda, *Medley Wood 583*, 9492, 10445, Kew ; Winkle Spruit, *Pole Evans*, 1401, 1583 ; Stella Bush, *Doidge*, 1615, *v. d. Byl*, 31965 ; Verulam, *Pole Evans*, 6829 ; Umkomaas, *Bottomley*, 11889 ; Phoenix, *Wager*, 33097 ; Durban, *v. d. Byl 209*.

Endodothella natalensis Doidge

Doidge (1921 c) 30, (1942 b) 458.

on **Dichrostachys glomerata** (Forsk.) Chiov., Winkle Spruit, *Doidge*, 2513 ; Verulam, *Pole Evans*, 6833, Type.

Homostegia Piggotii (Berk. & Br.) Karst.

Zahlbruckner (1926 b) 522.

on **Parmelia rudecta** Ach., near Windhoek, *Fincke*.

Ophiodothella edax (Berk. & Br.) v. Höhn.

Doidge (1921 c) 32, (1942 b) 458.

on **Tephrosia elongata** E. Mey., Olifantsfontein, *Pienaar*, 12822.

Ophiodothella Liebenbergii Doidge

Doidge (1942 b) 459.

on **Ochna pulchra** Hook., Hartebeestpoort, *Liebenberg*, 30382, Type : The Willows, *Doidge & Bottomley*, 29735 ; Meintjes Kop, *Hean*, 32801 ; Rustenburg, *Hean*, 31084.

Phaeochorella Parinarii (P. Henn.) Theiss. & Syd.

Theissen & Sydow (1915) 405 ; Doidge (1921 c) 26, (1942 b) 456 ; van der Byl (1926 c) 287, Hopkins (1938 a) 103.

? as *Sphaerodothis Parinarii* Nel (1942) 13.

? as *Phaeosphaerella Parinarii* (P. Henn.) Theiss. & Syd., Hopkins (1939 a) 30.

on **Parinarium capense** Harv., Pretoria, *Doidge*, 613, 1507, 2203, *Erasmus*, 1272, *Verwoerd* (Stell. 288), *Janse* (v. d. Byl 1307) ; Natal, *Pole Evans*, 10981 ; Buffelspoort, *Pallister*, 17825 ; Wonderboom, *Schonland*, 21983 ; Silverton Ridge, *Doidge*, 23409 ; Daspoort, *Kresfelder*, 30817 ; Donkerpoort, *Doidge & Bottomley*, 29729 ; Waterkloof Ridge, *Doidge*, 29855 ; Wolwekloof, *Bottomley*, 32885 ; Nelspruit, *Wager*, 23411, *Liebenberg*, 25497 ; Kuebe, *Baum 313*, Kew.

Parinarium curatellifolium Planch., Magoeba's Kloof, 9173.

Parinarium mobola Oliv., Rhodesia, *Howard*, 730; Letaba Drift, *Doidge*, 1809; Louis Trichardt, *Power*, 30113 ; Zoutpansberg, *v. d. Byl 2741* ; Woodbush, *K. M. Putterill*, 32750, *v. d. Byl 1526* ; Rua River, *Eyles 1347* (v. d. Byl 2438) 23412 ; Mazoe, *Eyles 5279* (v. d. Byl 2507) : Trelawney, *Hopkins* (Rh. 154) Kew.

Phyllachora Aberiae P. Henn.

P. Hennings (1908) 272 ; Sacc. Syll. Fung. XXII : 411 ; Theissen & Sydow (1915) 534 ; Doidge (1921 c) 29, (1942 b) 452 ; van der Byl (1926 c) 287 ; Doidge & Bottomley (1931) 32 ; Hopkins (1938 a) 103.

on **Dovyalis caffra** Warb., Uitenhage, *Lounsbury*, 202, 224, Type, Kew. *Pienaar*, 2420 ; Driefontein, *Doidge*, 1813 ; Mbabane, *Smith* (Stell. 69 ; v. d. Byl 1280).

Dovyalis rhamnoides Harv., Umhlanga Rocks, *Wager*, 32778.

Dovyalis sp., Zimbabwe, *v. d. Byl 2469*.

Phyllachora amaniensis P. Henn.

Doidge (1921 c) 29, (1942 b) 440 ; Doidge & Bottomley (1931) 68.
on **Ficus capensis** Thunb., Amanzimtoti, *Franks*, 7812 ; Barberton, *v. d. Byl*, 7378 ; Wyebank, *Doidge*, 9537 ; Umhlali, *Bosman*, 29924 ; Schagen, *Liebenberg*, 26005.

Phyllachora anthistiriicola Syd.

Doidge (1924 a) 219, (1942 b) 427.
on **Themeda triandra** Forsk., Magaliesberg, *v. d. Byl*, 2196, Type ; Birchleigh, *Hean*, 30069 ; Gordon's Bay, *du Plessis* (Stell. 553) ; ? Varkensvlei, *Dippenaar* (Stell. 1080).

Phyllachora Arundinellae Doidge

Doidge (1942 b) 427.
on **Arundinella Ecklonii** Nees., Nelspruit, *Liebenberg*, 26019, Type ; Debbe's Ravine, *Bottomley*, 29866 ; Silverton Ridge, *Doidge*, 23422 ; Rooiwal, *Bosman*, 29857 ; Wolwekloof, *Bottomley*, 32775, 32873 ; Nottingham Road, *McClean*, 32293.

Phyllachora Baumii P. Henn.

P. Hennings (1903) 166 ; Sacc. Syll. Fung. XVII : 835 ; Theissen & Sydow (1915) 546 ; Doidge (1942 b) 455.
on **Sideroxylon** sp., Jau, *Baum 1002*, Kew, Type.

Phyllachora Bottomleyae Doidge

Doidge (1942 b) 425.
on **Ischaemum arcuatum** Stapf, Donkerpoort, *Doidge & Bottomley*, 29777, Type, 31010, 31017.

Phyllachora Brachypodii Roum.

Doidge (1942 b) 431.
? on **Brachypodium flexum** Nees, Xumeni Forest, *Morgan & Doidge*, 29824, 31020, 32223, 32772.

Phyllachora Brachystegiae Doidge

Doidge (1924 a) 220, (1942 b) 445 ; Hopkins (1938 a) 103, (1939 a) 8 ; Nel (1942) 11.
on **Brachystegia Randii** Bak. f., Salisbury, *Eyles 5023, 5024, 5025* (v. d. Byl 2462, 2460, 2464.)
Brachystegia sp., Salisbury, *Eyles* (Rh. 1822, 2055) 11680, Type ; Marandellas, (Rh. 2162, 1198) Kew ; Dombashawa, *v. d. Byl 2443.*

Phyllachora Burgessiae Doidge

Doidge (1942 b) 450.
on **Dombeya Burgessiae** Gerr., Woodbush, *Doidge*, 17732 and ? 1762 ; Cloudlands, *Mogg*, 30149, Type.
Dombeya pulchra N.E. Br., Nelspruit, *Liebenberg*, 29917.

Phyllachora caffra Syd.

Theissen & Sydow (1915) 456 ; Doidge (1921 c) 27, (1942 b) 456 ; Sacc. Syll. Fung. XXIV : 568.
Physalospora caffra Syd., H. & P. Sydow (1912 a) 39.
on **Cordia caffra** Sond., Amanzimtoti, *Doidge*, 1631, Type.

Phyllachora capensis Doidge

Doidge (1942 b) 452.
Scolecodothis capensis Doidge (1921 c) 27.
on **Eugenia Zeyheri** Harv., Howieson's Poort, *Doidge*, 10963, Type, 12379; van Staden's Pass, *Doidge*, 10869.
Eugenia zuluensis Dümmer, Highbury, *Doidge*, 33151.

Phyllachora chloridicola Speg.

Verwoerd & du Plessis (1933) 229 ; Doidge (1942 b) 430.
on **Chloris** sp., Victoria Falls, *Eyles* (v. d. Byl 658) ; Kandahar Is., *v. d. Byl* (Stell. 658).

Phyllachora Chrysopogonis Syd.

Doidge (1924 a) 219, (1942 b) 423.
on **Chrysopogon montanus** Trin. var. **tremulus** Stapf, Armoedsvlakte, *Pole Evans*, 9302, Type.

Phyllachora circinata (Kalchbr. & Cooke) Theiss. & Syd.

Theissen & Sydow (1917 a) 141 ; Doidge (1942 b) 448.
Dothidea circinata Kalchbrenner & Cooke (1880) 32.
Parodiella circinata (Kalchbr. & Cooke) Sacc. Syll. Fung. I : 718.
on **Leguminosae** undet. (? *Phaseolus* sp. or ? *Dolichos* sp.) Natal, *Medley Wood 49*, Kew, Type.

Phyllachora Crotonis (Cooke) Sacc.

Sacc. Syll. Fung. II : 599 ; Theissen & Sydow (1915) 523 ; Doidge (1922 a) 67, (1942 b) 448 ; Doidge & Bottomley (1931) 2.
Dothidea Crotonis Cooke (1882 a) 129.
on **Croton sylvaticus** Hochst., Inanda, *Medley Wood 466*, Type, 9489.

Phyllachora Cynodontis (Sacc.) Niessl.

Doidge (1922 a) 67, (1942 b) 429 ; van der Byl (1922 d) 284 ; Verwoerd (1929 b) 13, (1931 a) 299 ; Doidge & Bottomley (1931) 12, 58 ; Hopkins (1938 a) 103 ; Nel (1942) 12.
on **Cynodon Dactylon** Pers., Pretoria, *Burtt Davy*, 145, 170, *Wager*, 23423 ; Groenkloof, Pretoria, *Burtt Davy*, 917 ; Vereeniging, *Burtt Davy*, 935 ; Cedara, *Fisher*, 1172 ; Bloemfontein, *Potts*, 11311 ; Brandfort, *Verwoerd*, (v. d. Byl 2366) ; Irene, *S. Smuts*, 17016 ; Skinner's Court, *Bottomley*, 23424 ; Rietvlei, Pretoria Distr., *Acocks & Murray*, 32140; Buffelspoort, *Bottomley*, 25938, *Doidge*, 27588; Jacksonstuin, *Doidge*, 32437; Schagen, *Liebenberg*, 26344 ; Donkerpoort, *Doidge & Bottomley*, 29749 ; Potchefstroom, *Radloff* (Stell. 237 ; v. d. Byl 2100) ; Tabamhlope, *West*, 29956 ; Nqutu, *West*, 29957 ; Durban, *v. d. Byl 225*, 32455, *McClean*, 32294 ; Knysna, *Bottomley*, 31015 ; Stellenbosch, *v. d. Byl 485* ; Salisbury, *Eyles 5336* (v. d. Byl 2519 ; Rh. 1389, 1609) Kew ; Umtali (Rh. 2943).
Cynodon hirsutus Stent, Rhebokkop, *Goossens*, 28816 ; Groenkloof, Pretoria, *Stent*, 24342.
Cynodon incompletus Nees, Pretoria, *Pole Evans*, 17, 1587.
Cynodon plectostachyum Pilg., Cedara, *Staples*, 17080.

Var. **Chloridis** P. Henn.

Doidge (1942 b) 430.
sub *Phyllachora Cynodontis* (Sacc.) Niessl, Nel (1942) 12.
on **Chloris gayana** Kunth, Durban, *v. d. Byl*, 31972, *v. d. Byl 226*, *Wager*, 32416.
Chloris pycnothrix Trin., Swaziland, *Burtt Davy*, 1602 ; without locality, 23467.

Phyllachora Digitariae Syd.

Doidge (1924 a) 220, (1942 b) 433.
on **Digitaria eriantha** Steud., Donkerpoort, *Doidge & Bottomley*, 29768.
Digitaria eriantha var. **stolonifera** Stapf, Prinshof, *Bottomley*, 23876.
Digitaria Pentzii Stent, Ashbury, *Doidge & Bottomley*, 29782.
Digitaria seriata Stapf, Donkerpoort, *Doidge & Bottomley*, 29770.
Digitaria Smutsii Stent, Irene, *S. Smuts*, 17017, Type.

Phyllachora digitaricola Doidge

Doidge (1942 b) 433.
on **Digitaria Brazzae** Stapf, Donkerpoort, *Doidge & Bottomley*, 29776, Type
Digitaria longiflora Pers., Durban, *McClean*, 30093.
Digitaria monodactyla Stapf, Rietvlei, Pretoria Distr., *Acocks & Murray*, 32139.
Digitaria sanguinalis Scop., Westfalia, *Doidge*, 20329.

Phyllachora Doidgeae Syd.

Doidge (1924 a) 220, (1942 b) 423, 460.
on **Cymbopogon excavatus** Stapf, Derdepoort, *Doidge & Bottomley*, 29805 ; Schagen, *Liebenberg*, 29856 ; The Willows, *Doidge & Bottomley*, 29818.
Cymbopogon marginatus (Steud.) Stapf, Donkerpoort, *Doidge & Bottomley*, 29744 ; Derdepoort, *Doidge & Bottomley*, 29800.
Hyparrhenia cymbaria Stapf, Schagen, *Liebenberg*, 29869.
Hyparrhenia hirta Stapf, Debbe's Ravine, *Mogg*, 29852 ; Skinner's Court, *Doidge*, 23425 ; Derdepoort, *Doidge & Bottomley*, 29801 ; Mamathes, *Hean*, 32427 ; Taylor's, *Doidge*, 32785 ; Nottingham Road, *McClean*, 32291, 32305.
Monocymbium ceresiiforme Stapf, Durban, *Doidge*, 1612, Type ; Edendale, *Doidge*, 1998 ; Nelspruit, *Liebenberg*, 26036 ; Godwan River, *Liebenberg*, 26055.

Phyllachora Dombeyae Syd.

Theissen & Sydow (1915) 532 ; Doidge (1921 c) 28, (1942 b) 451 ; Sacc. Syll. Fung. XXIV : 604.
Physalospora Dombeyae, Syd., H. & P. Sydow (1912 c) 441.
on **Dombeya pulchra** N.E. Br., Nelspruit, *Liebenberg*, 26003.
Dombeya rotundifolia (Hochst.) Harv., Equeefa, *Fuller*, 1539, Type ; Tzaneen, *Liebenberg*, 30962.

Phyllachora Elyonuri Doidge

Doidge (1942 b) 424.
on **Elyonurus argenteus** Nees, Donkerpoort, *Doidge & Bottomley*, 30076.
Elyonurus glaber Phill. var. **villosus** Phill., Donkerpoort, *Doidge & Bottomley*, 29748, Type.

Phyllachora Eragrostidicola, Doidge.

Doidge (1948 a) 865.
Phyllachora Eragrostidis Doidge (1942 b) 430, not Chandon.
as *Phyllachora* sp., Doidge & Bottomley (1931) 13.
on **Eragrostis curvula** Nees, Mamathes, *Hean*, 32428, Type ; ? Brandfort, *Verwoerd* (Stell. 219).

Eragrostis gangetica Steud., Donkerpoort, *Doidge & Bottomley*, 30077.
Eragrostis Lehmanniana Nees, Toowoomba, 30437.
Eragrostis robusta Stent., Empangeni, *McClean*, 35154.
Eragrostis spp., Irene, *S. Smuts*, 17014 ; Jacksonstuin, *K. M. Putterill*, 32444.

Phyllachora Evansii Syd.

H. & P. Sydow (1912 a) 40 ; Theissen & Sydow (1915) 459 ; Doidge (1922 a) 67, (1942 b) 436 ; Sacc. Syll. Fung. XXIV, 586 ; van der Byl (1926 c) 287 ; Doidge & Bottomley (1931) 40.

on **Setaria Chevalieri** Stapf, Barberton, *Burtt Davy* 137, 138, Type, *Pole Evans*, 1280; Isipingo, *Bottomley*, 11659 ; Woodbush, *Doidge*, 17734, *v. d. Byl 1654* ; Durban, *Bottomley*, 12231 ; Schagen, *Liebenberg*, 26025 ; Umtentweni, *Wager*, 32672 ; Umfolosi, *McClean*, 32307.
Setaria Lindenbergiana Stapf, Wonderboom, *Mogg*, 23464.

Phyllachora ficuum Niessl.

H. & P. Sydow (1909) 546 ; Doidge (1942 b) 441.
Trabutia ficuum (Niessl.) Theiss. & Syd., Doidge (1921 c) 24, Doidge & Bottomley (1931) 68.

on **Ficus mallatocarpus** Warb., near Salisbury, *Verdoorn*, 33202.
Ficus Sycamorus Linn., Moçambique, *Howard*, 520, Kew ; Lourenço Marques, *Howard*, 719 ; Nelspruit, *Liebenberg*, 25969.

Phyllachora goyazensis P. Henn.

Doidge (1942 b) 453.
Catacauma goyazense (P. Henn.) Theissen & Sydow (1915) 396 ; Doidge (1927 b) 231.

on **Eugenia natalitia** Sond., Kentani, *Pegler 2110*, 9113.

Phyllachora grammica P. Henn.

Doidge (1942 b) 441, 443 ; van der Byl (1926 c) 287.
Catacauma grammicum (P. Henn.) Theissen & Sydow (1915) 382 ; Doidge (1921 c) 26.

on **Ficus capensis** Thunb., Lemana, *Doidge*, 1829 ; Kentani, *Pegler 1993*, 8884, Kew ; Storms River, *Doidge*, 17164 ; Brenton, Knysna, *Laughton*, 34316.

Phyllachora Grewiae (Kalchbr.) Theiss. & Syd.

Theissen & Sydow (1915) 530 ; Doidge (1942 b) 450.
Rhytisma Grewiae Kalchbr., Kalchbrenner & Cooke, (1880) 32 ; Sacc. Syll. Fung. VIII : 756.

on **Grewia occidentalis** Linn., ? Inanda, *Medley Wood 106*, Type, Kew.

Phyllachora Halsei Doidge

Doidge (1942 b) 444.

on **Acacia Benthami** Roxbr., Scottsburgh, *Halse*, 30380.
Acacia Gerrardi Benth., Verulam, *Halse*, 30128, Type ; Nelspruit, *Doidge*, 32405; Nkwaleni Valley, *McClean*, 33088 ; Loskop, *Mogg*, 34204.
Acacia robusta Burch., Umzinto, *McClean*, 30116.

Phyllachora heterospora P. Henn.

Theissen & Sydow (1915) 453 ; Doidge (1922 a) 68, (1942 b) 434, 460 ; van der Byl (1926 c) 287 ; Verwoerd (1931 a) 299 ; Doidge & Bottomley (1931) 28 ; Nel (1942) 12.

sub *Phyllachora graminis* Pers, Kalchbrenner (1882 a) 146.

on **Panicum maximum** Jacq., Somerset East, *MacOwan 1319* (S.A.M. 33616) 20823 ; Natal, *Medley Wood 221* ; Maritzburg, *Pole Evans*, 1442 ; Durban, *Doidge*, 1611, *McClean*, 30136, *Wager*, 32720 ; Stella Bush, *Wager*, 32754 ; Barberton, *Doidge*, 2015, *v. d. Byl*, 5137 ; Umbelusi, *Howard*, 664 ; Nelspruit, *Liebenberg*, 26007 ; Moçambique, *Howard*, 1459 ; Tzaneen, *Doidge*, 20321, *v. d. Byl 1493* ; Kentani, *Pegler 1933*, 7773, 9095, Kew ; Cedara, Staples, (Stell. 40, v. d. Byl 1113) 17058 ; Buffelspoort, *Bottomley*, 25939, *Jacot-Guillarmod*, 30651 ; Derdepoort, *Doidge & Bottomley*, 29803, 33937 ; Umtwentweni, *Porter*, 32678 ; Bloemfontein, *Verwoerd*.

Panicum deustum Thunb., Umfolosi, *McClean*, 31018 ; Ndwedwe, *Halse*, 3029€ ; Amanzimtoti, *Doidge*, 30121 ; Hippo Pool, Pretorius Kop, *Chippindall*, 33148.

Phyllachora Hieronymi P. Henn.

Doidge (1921 b) 28, (1942 b) 423.

on **Cyathea Dregei** O. Kze., Winter's Kloof, *Doidge*, 1666 ; Rooiwal, *Bosman*, 34437.

Phyllachora Howardiana Petrak

Petrak (1929) 386 ; Doidge (1942 b) 441.

Trabutia Evansii Theissen & Sydow (1915) 352, not *Phyllachora Evansii* Syd. ; Doidge (1921 c) 24 ; Sacc. Syll. Fung. XXIV : 557 ; Doidge & Bottomley (1931) 68.

on **Ficus carica** Linn., Lourenço Marques, *Howard*, 668, Type ; Eshowe, *McClean*, 33105.

Ficus capensis Thunb., Umhlali, *Bosman*, 29923 ; Tzaneen, *Liebenberg*, 30965.

Phyllachora Kniphofiae (Kalchbr. & Cooke) Sacc.

Sacc. Syll. Fung. II : 607 ; Theissen & Sydow (1915) 568 ; Doidge (1942 b) 461.

Dothidea Kniphofiae Kalchbrenner & Cooke (1880) 31.

on **Kniphofia aloides** Monch., Boschberg, *MacOwan 1311* (Rabenh. Wint. Fung. Eur. 3556) 389€, Kew ; also *MacOwan 1337, 1337a*, Kew.

Not a true Phyllachora ; has a Sphaerella-like perithecium without true clypeus (Theissen & Sydow, l.c.) ; fide Kalchbrenner & Cooke (l.c.) type specimen is MacOwan " Nos. 1011, 1337 b."

Phyllachora Leptocarydii Syd.

Doidge (1924 a) 220, (1942 b) 430.

on **Leptocarydion Vulpiastrum** Stapf, Sydenham, *Franks*, 7814, Type.

Phyllachora Loudetiae Doidge

Doidge (1942 b) 428.

on **Loudetia simplex** (Nees) Hubb., Donkerpoort, *Doidge & Bottomley*, 29775, Type, 29756

Phyllachora Melianthi (Thuem.) Sacc.

Sacc. Syll. Fung. II : LXIX and IX : 1013 ; Theissen & Sydow (1915) 528 ; Doidge (1921 c) 28, (1942 b) 449, 450 ; van der Byl (1922 d) 284 ; Doidge & Bottomley (1931) 13 ; Nel (1942) 12.

Rhytisma Melianthi Thuem., von Thuemen (1876 b) 569.

Dothidea lucens Cooke (1882 a) 128.

Dothidea Melianthi Kalchbrenner & Cooke, Kalchbrenner (1882 a) 146 ; Doidge 1922 a) 68.

Phyllachora lucens (Cooke) Sacc. Syll. Fung. II : 600 ; Theissen & Sydow (1915) 562 ; *Cryptomyces Melianthi* (Thuem.) Sacc. Syll. Fung. VIII : 707.
Physalospora Bersamae Syd., in Herb. Kew, ? nom. nud.
on **Melianthus major** Linn., Boschberg, *MacOwan 1266*, Type (Thuem. Myc. Univ. 1267) 20828, 21974 ; near Cape Town, *MacOwan* (Rabenh. Fung. Eur. 3557 ; S.A.M. 33459) 3897 ; Stellenbosch, *v. d. Byl 228*, *Verwoerd* (Stell. 17).
Bersama lucens (Hochst.) Szysz., Kentani, *Pegler 2323*, 9077, Kew.
Bersama Swynnyi Phill., Inanda, *Medley Wood 581*, 9487, 10443, Kew.
Bersama Tysoniana Oliver, West Wood, Haenertsburg, *Doidge*, 17776.

Phyllachora melinicola Syd.

H. Sydow (1924 c) 429 ; van der Byl (1926 c) 287 ; Doidge (1942 b) 434 ; Nel (1942) 12.
sub *Phyllachora graminis* Fuck., Massee (1901 b) 168.
on **Melinis minutiflora** Beauv., Umpumulo Hills, *Buchanan 299*.
Melinis minutiflora forma **inermis** Stapf. & Hubb., Tzaneen, *v. d. Byl 1652*, Type, 20446, ex Herb. Syd.
Melinis tenuinervis Stapf, Nelspruit, *Liebenberg*, 26037.
Melinis sp., Salisbury, *Eyles* (Rh. 2277) 15515, 33973 ; Dombashawa, *Hopkins* (Rh. 6009).

Phyllachora microstegia Syd.

H. Sydow (1924 c) 430 ; van der Byl (1926 c) 287 ; Doidge (1942 b) 452 ; Nel (1942) 12.
on **Ochna Holstii** Engl., Woodbush, *v. d. Byl 1498*, Type, 20448 ex Herb. Syd.
Ochna O'Connorii Phillips, Nongoma Distr., *Gerstner*, 35300.

Phyllachora minuta P. Henn.

Doidge (1927 b) 231, (1942 b) 450 ; Nel (1942) 12.
on **Hibiscus tiliaceus** Linn., Port Shepstone, *Pole Evans*, 5604 ; near Durban, *v. d. Byl 227*, 32450 ; Umkomaas, *v. d. Byl 649*, 31876.

Phyllachora Miscanthidii Doidge

Doidge (1942 b) 425.
on **Miscanthidium capense** Stapf, Verulam, *James*, 32675.
Miscanthidium sorghum (Nees) Stapf, Xumeni Forest, *Doidge*, 31011, Type ; Kentani, *Pegler*, 8348, 9169 ; Gala Bush, *Doidge*, 31013.

Phyllachora Morganae Doidge

Doidge (1942 b) 438.
on **Sporobolus pyramidalis** Beauv., Xumeni Forest, *Morgan & Doidge*, 29833 ; Nottingham Road, *McClean*, 32292.
Sporobolus sp., Donkerpoort, *Doidge & Bottomley*, 29772.

Phyllachora myrsinicola Doidge

Doidge (1922 a) 81, (1942 b) 455 ; Doidge & Bottomley (1931) 16 ; Nel (1942) 12.
on **Rapanea melanophleos** Mez., Duncairn, *Doidge*, 15015, Type ; Greytown, *Doidge*, 15530 ; Howieson's Poort, *Doidge*, 19376 ; Woodbush, *Doidge*, 1756 ; Noetze, *v. d. Byl 2287*.

Phyllachora nervisequens (Lingelsh) Petrak

Doidge (1942 b) 442.

Trabutia nervisequens (Lingelsh) Theiss. & Syd., Doidge (1921 c) 25 ; Doidge & Bottomley (1931) 68 ; Nel (1942) 21, 108.

on **Ficus Burtt-Davyi** Hutch., Umgeni Lagoon, *Doidge*, 854 ; Port Shepstone, *Pole Evans*, 5608 ; Amanzimtoti, *Franks*, 7813.

Ficus natalensis Hochst., Malvern, *Doidge*, 1994 ; Winkle Spruit, *Pole Evans*, 2019 ; Port Elizabeth, *D. Gunn*, 12248 ; Escombe, *Hean*, 33109.

Ficus Burkei Miq., Eastern Transvaal, *Liebenberg*, 32884.

?on**Ficus capensis** Thunb., Zimbabwe, *v. d. Byl 2741* ; Durban, *v. d. Byl 256*.

Ficus sp., Durban, *Verwoerd* (Stell. 155).

Phyllachora Peglerae Doidge

Doidge (1942 b) 453.

Catacauma Peglerae Doidge (1921 c) 25.

on **Eugenia capensis** Harv., Kentani, *Pegler 2340*, 9099, Type, Kew ; Umbogintwini, *Doidge*, 6636 ; Scottsburgh, *Pole Evans*, 6841 ; Warner Beach, *Bottomley*, 11667 ; Mtunzini, *Laughton*, 33547.

Phyllachora Peltophori Syd.

H. & P. Sydow (1912 a) 40 ; Theissen & Sydow (1915) 507 ; Doidge (1921 c) 29, (1942 b) 446 ; van der Byl (1926 c) 287 ; Doidge & Bottomley (1931) 30 ; Sacc. Syll. Fung. XXIV : 593.

on **Peltophorum africanum** Sond., Ledzee, *Doidge*, 1810, Type ; Nelspruit, *Loest*, 29888, *Doidge*, 32400.

Phyllachora Penniseti Syd.

Doidge (1922 a) 68, (1942 b) 435, 436 ; Nel (1942) 12.

on **Pennisetum macrourum** Trin., Hogsback, *K. M. Putterill*, 30071 ; Kirstenbosch, *H. H. W. Pearson*, 7401 ; Stellenbosch, *v. d. Byl 1921, 2316*, *Verwoerd* (Stell. 18).

Pennisetum sphacelatum D. & S., Tugela Valley nr. Mont-aux-Sources, *Doidge*, 14102.

Phyllachora permutata Petrak

Petrak (1927) 268-270, Doidge (1942 b) 428.

on **Arundinaria tesselata** Munro, Goodoo Bush, *Doidge*, 14103, Type.

Phyllachora Perotidis Doidge

Doidge (1942 b) 439.

on **Perotis indica** (Linn.) O. Ktze., Donkerpoort, *Doidge & Bottomley*, 29754, Type ; Pretorius Kop, Kruger National Park, *Chippindall* 33147.

Phyllachora placida (Syd.) Theiss.

Theissen (1916 a) 424 ; Petrak & Sydow (1925) 222 ; Doidge (1942 b) 455.

Physalospora placida Syd., H. & P. Sydow (1909) 544 ; Sacc. Syll. Fung. XXII : 84.

on **Mimusops caffra** E. Mey., Lourenço Marques, *Howard*, 669, Type ; Mtunzini, *Laughton*, 33512.

Phyllachora Pretoriae Doidge

Doidge (1942 b) 442.

on **Ficus Pretoriae** Burtt Davy, Rustenburg, *Kresfelder*, 23676, Type.

Phyllachora Proteae Wakef.

Wakefield (1922) 164 ; Doidge (1942 b) 443 ; Doidge & Bottomley (1931) 53 ; Nel (1942) 12.

on **Protea acaulis** Thunb., Cape Town, *Marloth* (Stell. 235).

Protea mellifera Thunb., Klapmuts, *v. d. Byl 357*, Type, 32915, Kew ; Stellenbosch, *v. d. Byl 1037*, *Verwoerd* (Stell. 16).

Phyllachora Pterocarpi Syd.

H. & P. Sydow (1912 a) 40 ; van der Byl (1926 c) 287 ; Doidge (1942 b) 446 ; Nel (1942) 12.

Catacauma Pterocarpi Syd., Theissen & Sydow (1915) 387 ; Doidge (1921 c) 25 ; Sacc. Syll. Fung. XXIV : 560 ; Hopkins (1932) 466, (1938 a) 103, (1939 a) 37.

on **Pterocarpus angolensis** DC., Letaba Drift, *Doidge*, 1807, Type ; Barberton, *v. d. Byl*, 1922, 5132 ; Schagen, *Liebenberg*, 26354 ; Pretorius Kop, Kruger National Park, *Lansdell*, 29954.

Pterocarpus erinaceus Lam., Nelspruit, *Loest*, 29891 ; Salisbury, *Eyles 5020*, (v. d. Byl 2461) ; Mazoe, *v. d. Byl 2459* ; Matopos, *Eyles 5019* (v. d. Byl 2463).

Pterocarpus rotundifolius (Sond.) Druce, Nelspruit, *Wager*, 23413, *Doidge*, 32402 ; Schagen, *Liebenberg*, 26014 ; Khami Ruins, *v. d. Byl 204*, Kew ; Tzaneen, *v. d. Byl 1502*.

Pterocarpus sp., Rhodesia, *v. d. Byl 65* ; Salisbury, *Eyles* (Stell. 5).

Phyllachora puncta (Cooke) Doidge

Doidge (1942 b) 445, 446.

Dothidea puncta Cooke (1882 a) 128.

Parodiella puncta (Cooke) Sacc. Syll. Fung. I : 718.

Catacauma puncta (Cooke) Theissen & Sydow (1917 a) 141.

on **Dalbergia armata** E. Mey., Inanda, *Medley Wood 605*, *607*, Type, 9488, 10441, Kew ; Barberton, *Pole Evans*, 588 ; Umgeni Lagoon, *Doidge*, 881 ; Stella Bush, *Doidge*, 1662 ; Verulam, *Pole Evans*, 6809 ; Schagen, *Liebenberg*, 29908, 29880 ; Amanzimtoti, *Doidge*, 30289 ; Umbcgintwini, *Wager*, 32718.

Phyllachora ? repens (Corda) Sacc.

Lorrain Smith (1901) 477 ; Sacc. Syll. Fung. II : 597 ; Doidge (1942 b) 443.

Isothea rhytismoides Fr., Welwitsch & Currey (1868) 285.

Dothidea repens Berk., Kalchbrenner (1882 a) 146 ; Cooke (1879 b) 72 ; Cooke & Kalchbrenner (1881) 27.

on **Ficus gnaphalocarpa** A. Rich., in woods at Monimo, Huilla, *Welwitsch 141* ; near Lopollo, *Welwitsch 6374*.

Ficus ingens Miq., Inanda, *Medley Wood 228*, *543*, 9466, 10435, Kew.

Phyllachora rikatliensis (Doidge) Petrak

Petrak (1927) 291--293 ; Doidge (1942 b) 445.

Phyllachorella rikatliensis Doidge (1921 c) 30.

on **Dialium Schlechteri** Harms, Rikatli, *Junod*, 11726, Type.

Phyllachora sanguinolenta Theiss. & Syd.

Theissen & Sydow (1915) 455 ; Doidge (1942 b) 432.

as *Phyllachora sanguinolenta* var. *microspora* Syd., Hopkins (1938 a) 103, (1939 a) 7.

as *Phyllachora graminis* (Pers.) Fuck., Hopkins (1939 a) 47.

on **Brachiaria brizantha** Stapf, Tzaneen, *Doidge*, 20332 ; Barberton, *Wager*, 26150 ; Salisbury (Rh. 1908, 2145, 2158).

Brachiara serrata Stapf., Debbe's Ravine, *Bosman*, 31007.
Urochloa helopus Stapf, Irene, *S. Smuts*, 17015 ; Barberton, *Mogg*, 7806.
Urochloa mosambicensis (Hack) Dandy, Mazoe, *Eyles 3403*.

Var. **microspora** Syd.

Theissen & Sydow (1915) 455 ; Doidge (1924 a) 221, (1942 b) 433.
on **Panicum Stapfianum** Faure, Bloemfontein, *Potts*, 11307.
Urochloa ? pullulans Stapf, Tawoomba, 30436.

Phyllachora Schizachyrii Doidge
Doidge (1942 b) 426.
on **Schizachyrium semiberbe** Nees, Donkerpoort, *Doidge & Bottomley*, 29747, Type, 29778.

Phyllachora Schotiae Doidge
Doidge (1942 b) 447.
Catacauma Schotiae Doidge (1922 a) 65.
on **Schotia speciosa** Jacq., Humewood, *Doidge*, 2294, Type.

Phyllachora Strelitziae (Cooke) Sacc. emend. Doidge
Sacc. Syll. Fung. II : 606 ; Doidge (1942 b) 439 ; Nel (1942) 12.
Dothidea Strelitziae Cooke (1882 a) 129.
Endodothella Strelitziae (Cooke) Theissen & Sydow (1915) 587 ; Doidge (1921 c) 31.
on **Strelitzia augusta** Thunb., Inanda, *Medley Wood 580*, Type, 9468, 10442, Kew ; Isipingo, *Doidge*, 6639, *Wager*, 32423 ; Scottsburgh, *Pole Evans*, 6831, Barnard, 33996 ; Inanda, *v. d. Byl*, 6958 ; Kentani, *Pegler 2384*, 9422, Kew ; Durban, *v. d. Byl 205*, *498*, 32448 ; Amanzimtoti, *Curson*, 30774.

Phyllachora striatula Theiss. & Syd.

Theissen & Sydow (1915) 441 ; Sacc. Syll. Fung. XXIV : 575 ; Doidge (1942 b) 432.
on **Alloteropsis semialata** Hitch., Carolina, *Burtt Davy*, 483, Type ; Garstfontein, *Bosman*, 29863 ; Hopevale, *Doidge*, 32282.

Phyllachora superba Doidge

Doidge (1942 b) 431, 444.
on **Eragrostis superba** Peyr., Schagen, *Liebenberg*, 29864, Type ; Pelindaba, *Doidge & Bottomley*, 29846, 29872 ; Nelspruit, *Liebenberg*, 26018.

Phyllachora Tecleae Doidge

Doidge (1922 a) 68, (1942 b) 448.
on **Teclea natalensis** Engl., Kentani, *Pegler 2324*, Type, 9079.

Phyllachora Tephrosiae Syd.

H. Sydow (1924 c) 430 ; van der Byl (1926 c) 287 ; Doidge (1942 b) 447 ; Nel (1942) 13.
on **Tephrosia Nyasae** Bkr., f., Tzaneen, *v. d. Byl 1662*, Type, 20447, ex Herb. Syd.

Phyllachora transvaalensis Doidge

Doidge (1942 b) 436.
sub *Phyllachora Evansii* Syd., Doidge & Bottomley (1931) 26.
on **Setaria fiabellata** Stapf, Donkerpoort, *Doidge & Bottomley*, 30090, Type ; Birchleigh, *Hean*, 30091 ; Riet Vlei, Pretoria Distr., *Acocks & Murray*, 32138.

Setaria nigrirostris Dur. & Schinz, Vereeniging, *Burtt Davy*, 10021.
Setaria sphacelata Stapf & Hubb., Garstfontein, *Pienaar*, 1265 ; Barberton, *Doidge*, 2012 ; Donkerpoort, *Doidge & Bottomley*, 30092.

Phyllachora Tricholaenae P. Henn.

Doidge (1922 a) 69, (1942 b) 437 ; van der Byl (1926 c) 287 ; Doidge & Bottomley (1931) 40 ; Hopkins (1938 a) 103, (1939 a) 40 ; Nel (1942) 40.
on **Rhynchelytrum repens** (Willd.) Hubb., Godwan River, *Liebenberg*, 26053 ; Nelspruit, *Liebenberg*, 26672 ; Irene, *S. Smuts*, 17013 ; Sonderwater, *Mogg*, 34083 ; Winkle Spruit, *Pole Evans*, 5641 ; Ashbury, *Doidge & Bottomley*, 29781 ; Donkerpoort, *Doidge & Bottomley*, 29738 ; Schagen, *Liebenberg*, 30139 ; Tzaneen, *v. d. Byl 1657* ; Durban, *v. d. Byl*, 32454 ; Cavendish, *Wager*, 32784 ; Salisbury (Rh. 1990).
Rhynchelytrum setifolium Chiov., Derdepoort, *Doidge & Bottomley*, 33938.
Tricholaena monachme Trin., Beira, *Hitchcock 34384*, 33107 ; Derdepoort, *Doidge & Bottomley*, 29796.

Phyllachora Winkleri Syd.

H. & P. Sydow (1912 b) 80 ; Doidge (1924 a) 220, (1942 b) 435.
on **Paspalum scrobiculatum** L., var. **Commersonii** Stapf, Quelimane, *Howard*, 648 ; Nelspruit, *Liebenberg*, 25998, 26062 ; Ndwedwe, *Halse*, 30291 ; Stellenbosch, *Dippenaar*.

Phyllachora Woodiana Doidge

Doidge (1942 b) 454.
sub *Phyllachora gentilis* Speg., P. Sydow (1899 a) (133).
on **Eugenia capensis** Harv., near Durban, *Medley Wood 6462*, 328, 9477, Type.

? **Phyllachora** sp.

Sphaeria graminis Pers. var. *Ehrhartae* Berk.
on **Ehrharta** sp., Uitenhage, *Drège 83*.

Phyllachora spp.

as *Phyllachora graminis* (Pers.) Fuck., Verwoerd (1929 b) 13.
on **Eragrostis curvula** Nees, Stellenbosch, *Verwoerd*.
Eragrostis sp., Bloemfontein, *Verwoerd*.
Briza maxima Linn., without locality, *Verwoerd*.

? **Telimena corticicola** Doidge

Doidge (1922 a) 70, (1942 b) 461.
on **Helichrysum** sp., bark, Alice, *Doidge*, 10975, Type.
Probably not a *Telimena*.

CAPNODIACEAE.

Capnodium australe Mont.

Berkeley (1876 a) 176.
Cape, Eaton.

Capnodium fuligo Berk. & Desm.

Berkeley (1876 a) 176.
on **Brabejum stellatifolium** Linn., foot of Table Mt., *Monsel*.

Capnodium salicinum Mont.

Hopkins (1938 a) 101, (1939 a) 11.

as *Capnodium Citri* Berk. & Desm., Hopkins (1930 a) 417 ; Bates (1937 b) 207.

as *Capnodium citricolum* McAlp., Doidge (1924 a) 213 ; Cardoso (1937) 152, (1938) 74, (1945) 151, 152, 153.

on **Citrus Limonia** Osbeck, Rhodesia, *Hopkins* ; Mazoe, *Bates* ; Umbeluzi, *Cardoso* ; Maotas, *Guimarãis*.

Citrus maxima Merr., Mazoe, *Bates* ; Salisbury, Marandellas, *Hopkins* ; Umbeluzi, *Cardosõ*.

Citrus nobilis Lour. var. **deliciosa** Sw., Mazoe, *Bates* ; Maotas, *Guimarãis*.

Citrus sinensis Osbeck, Iron Hill Mine (Rh. 3477) ; Que Que, Marandellas, *Hopkins* ; Mazoe, *Bates* ; Karreekloof, Lydenburg Distr., 12313 ; Umbeluzi, *Cardoso* ; Maotas, *Guimarãis*.

Citrus spp., Umbeluzi, Lourenço Marques, *Cardoso* ; Mahotas, *Guimarãis* ; Uniondale, *Verwoerd* (Stell. 223) ; George, *Verwoerd* (Stell. 443) ; Lemana, *Doidge*, 504, 1790.

Scorias sp.

on **Trichocladus crinitus** Pers., Izelini Forest, *Doidge*, 11611 d.

Treubiomyces Celastri Doidge

Doidge (1927 b) 239.

on **Gymnosporia** sp., Woodbush, *Doidge*, 17769.

CHAETOTHYRIACEAE.

Chaetothyrium capense (Doidge) Hansf. nov. comb.

Aithaloderma capense Doidge (1927 b) 239.

on **Schotia latifolia** Jacq., East London, *Doidge*, 12422, Type.

Chaetothyrium Syzygii Hansf.

Hansford (1946 a) 141.

on **Syzygium cordatum** Hochst., Eshowe, *McClean*, 33103 a, Type.

Microcallis Nuxiae (Doidge) Hansf.

Hansford (1946 a) 142.

Limacinia Nuxiae Doidge (1927 b) 240.

on **Lachnopylis tomentosa** (Sond.) C. A. Sm., Woodbush, *Doidge*, 17744, Type.

Microcallis Oleae Hansf.

Hansford (1946 a) 141, (1946 b) 191.

on **Olea capensis** Linn., Knysna, *Bottomley*, 32281, Type.

CORYNELIACEAE.

Corynelia uberata Fries ex Acharius.

Fries (1818) Pl. 8, f. 1, (1823) 535 ; von Thuemen (1878 a) 357 ; Winter (1884 a) 122 ; Kalchbrenner (1882 a) 146 ; Sacc. Syll. Fung. IX : 1073 ; Fitzpatrick (1920) 247, (1942) 468 ; Doidge (1924 a) 218 ; van der Byl (1925 b) 192 ; Doidge & Bottomley (1931) 69 ; Arnaud (1931) 271 ; J. Phillips (1931) 159 ; Wakefield (1936) 53 ; Hopkins (1938 a) 101, (1943) 188 ; Nel (1942) 10 ; Hansford (1946 a) 159 ; Simpson & Talbot (1946) 132.

? *Mucor clavatus* Linn. f. (1781) 453.

? *Lichen* (*Calicium*) *helopherus* Acharius (1798) 86 ; Thunberg (1800) 176, (1823) 743 ; Juel (1918) 50.

? *Sphaeria turbinata* Persoon (1801) 85.

Corynelia clavata (Linn.) Sacc., Pirotta (1889) 313, 314; Sacc. Syll. Fung. IX : 1073, XVI : 650 ; Marloth (1913) 28.

Corynelia clavata f. *fructicola* Rehm (1900) 192.

on **Podocarpus elongatus** L'Hérit., leaves, twigs and fruit, near Somerset East, *MacOwan* (Rabenh. Wint. Fung. Eur. 3149) 3489, Kew ; Wellington, *Doidge*, 986, Kew ; Keiskama Hoek, *Keet*, 14141 ; Klapmuts Hill, *Baker*, 18180 ; Knysna, *Keet*, 32015 ; Stellenbosch, *Worsdell*, Kew ; Knysna, *Verwoerd* (Stell. 127).

Podocarpus falcatus R. Br., Keiskama Hoek, *D.F.O.*, 8971 ; East London, *Doidge*, 12413 ; Storms River, *Doidge*, 17165 ; Kingwilliamstown, *D.F.O.*, 8258 ; Pirie Forest, *D.F.O.*, 7354, *Doidge*, 22423 ; Mquanduli, *Walker*, 27655.

Podocarpus Henkelii Stapf, Xumeni Forest, *Doidge*, 32218 ; without locality, *D.F.O.*, 14685.

Podocarpus gracilior Pilg., Woodbush, *Gray*, 885, *Doidge*, 1743, *Kotze*, 12250, *D.F.O.*, 26630.

Podocarpus latifolius R. Br., Cape, without locality, *Thunberg*, *Swartz* ; Grahamstown, *MacOwan 1253* (Thuem. Myc. Univ. 776), 21948, Kew ; Kaffraria, *Mansel-Weale* ; Grahamstown, 492, *Burtt-Davy*, 5580 ; Kubusie, *Woodcock*, 20591 ; Kentani, *Pegler 1917*, 6900 ; Ngome, *Foster*, 7410 ; Kingwilliamstown, *J. M. Sim*, 7815 ; Keiskama Hoek, *D.F.O.*, 8970 ; Umtata, *Pegler 2399*, 9739 ; St. James, *Pole Evans*, 5572 ; Knysna, *Keet*, 32014, *Bottomley*, 32265, *Doidge*, 17204, *Verwoerd* (Stell. 129) ; Deepwalls, *J. Phillips*, 17294, *Keet* (*v. d. Byl* 91), *v. d. Byl 2294* ; Stellenbosch, near Eerste Rivier, *Garside*, Kew; Natal, *Medley Wood 3293*, 11206, Kew; near Maritzburg, 33934 ; Marwaqa Forest, *Morgan & Doidge*, 30903 ; Eshowe, *Pole Evans*, 2027 ; Qudeni Forest, *Simpson & Talbot*, 34933 ; Woodbush, *Doidge* (Syd. Fung. Exot. 185) 1770, 17739, 17908, Kew.

Podocarpus milanjianus Rendl., eastern border, S. Rhodesia, *Eyles 7413*, Kew ; Salisbury, *Hopkins*.

Coryneliospora fructicola (Pat.) Fitzpatrick

Fitzpatrick (1942) 485 ; Simpson & Talbot (1946) 132.

Corynelia carpophila Syd., H. & P. Sydow (1910) 264 ; Sacc. Syll. Fung. XXII : 513.

Corynelia fructicola (Pat.) von Höhnel (1911) 450; Fitzpatrick (1920) 240; Doidge (1924 a) 217 ; Doidge & Bottomley (1931) 16 ; J. Phillips (1931) 169 ; Nel (1942) 10.

Lagenula fructicola (Pat.) Arnaud (1931) 269.

on **Rapanea melanophleos** Mez., fruits, Haenertsburg, *Lane Poole* ; Woodbush, *Doidge*, 1736, *v. d. Byl 2219* ; Kentani, *Pegler 1861*, 5617, 6621, 7795, Kew ; Tugela Valley near Mont-aux-Sources, *Doidge*, 14121, 14865 ; Greytown, *Doidge*, 15410 ; Qudeni Forest, *Simpson & Talbot*, 34936 ; Schagen, *Liebenberg*, 29893 ; Zinca Forest, Mount Frere, *D.F.O.*, 19849 ; Deepwalls, *J. Phillips*, 18038.

Tripospora tripos (Cooke) Lindau

Lindau (1897) 413 ; Fitzpatrick (1920) 232, (1942) 482 ; Doidge (1924 a) 216 ; Marloth (1913) 28 ; van der Byl (1925 b) 192 ; Doidge & Bottomley (1931) 69 ; J. Phillips (1931) 159 ; Nel (1942) 11.

Corynelia tripos Cooke (1879 a) 34 ; Winter (1884 a) 122 ; Kalchbrenner (1882 a) 146.

Tripospora Cookei (Cooke) Saccardo, Syll. Fung. IX : 1074.

on **Podocarpus elongatus** L'Hérit., Knysna, *v. d. Byl 666*, *2272*, *Verwoerd* (Stell. 193).

Podocarpus falcatus R.Br., near Somerset East, *MacOwan 1253* (Rabenh. Wint. Fung. Eur. 3450) 3490, 20983 ; Pirie Forest, *D.F.O.*, 7355 ; Kingwilliamstown, *J. M. Sim*, 7816 ; near Uitenhage, *Paterson*, 9047 ; near Maritzburg, *T. R. Sim*, 14274.
Podocarpus latifolius R.Br., near Somerset East, *MacOwan 1253 b.* (Rabenh. Wint. Fung. Eur. 3150) Kew ; Van Stadens Pass, *Doidge*, 10867.

MICROTHYRIALES.

(*HEMISPHAERIALES.*)

STIGMATEACEAE.

Aphysa Lebeckiae (Verw. & Dipp.) Doidge

Doidge (1942 b) 460.
Coccochora Lebeckiae Verwoerd & Dippenaar (1930 a) 328.
? as *Phaeodothis Lebeckiae* (Verw. & Dipp.) Nel (1942) 11.
on **Lebeckia Candeolleana** Walp., Gordon's Bay, *Loseby*, Type (Stell. 985 ; v. d. Byl 2590) 33211 ; Stellenbosch, *Verwoerd* (Stell. 389).

Aphysa Rhynchosiae (Kalchbr. & Cooke) Theiss. & Syd.

Theissen & Sydow (1917 a) 134, (1917 b) 402 ; Doidge (1922 a) 65 ; Nel (1942) 15 ; Hansford (1946 a) 165.
Stigmatea Rhynchosiae Kalchbrenner & Cooke (1880) 32 ; Sacc. Syll. Fung. I : 543.
Parodiella Schimperi P. Henn., P. Sydow (1899 a) (133) ; Doidge (1917) 720.
Stigmatula Rhynchosiae (Kalchbr. & Cooke) H. & P. Sydow (1901 b) 78.
on **Rhynchosia caribaea** DC., Inanda, *Medley Wood 55*, Type, 356, 9478 ; Umgeni, *Doidge*, 907, 908 ; Umkomaas, *Bottomley*, 11884 ; Van Staden's Pass, *Doidge*, 10864 ; Howieson's Poort, *Doidge*, 12381 ; Durban, *Lansdell*, 9015 ; Amanzimtoti, *Doidge*, 30286 ; near Mont-aux-Sources, *Doidge*, 14128 ; Duivelskloof, *Doidge*, 20338.
Rhynchosia komatiensis Harms., Rooiwal, *Bosman*, 29883.
Rhynchosia picta Burtt Davy, Inanda, *Medley Wood 55*, 10651, Kew ; Kentani, *Pegler 2357*, 9116, Kew ; Kowie, *Doidge*, 12362.
Rhynchosia sp., Durban, *v. d. Byl 397*.

Aphysa senniana (Sacc.) Doidge

Doidge (1941 b) 213, (1942 b) 461.
Phaeosphaerella senniana Sacc., Doidge (1920 c) 118 ; H. Sydow (1926) 270 ; Doidge & Bottomley (1931) 53.
Thyriopsis Proteae van der Byl (1929 a) 318 ; Doidge & Bottomley (1931) 53 ; Nel (1942) 13.
on **Protea acaulis** Thunb., Wellington, *Doidge*, 1022 ; Klapmuts, *v. d Byl* 6845.
Protea caffra Meisn., Fairy Glen, *Doidge*, 23421 ; The Willows, *v. d. Byl*, 5590.
Protea Flanagani Phill., Umtentweni, *Porter*, 32684.
Protea lepidocarpodendron Linn., Wellington, *Doidge*, 1034, 2062.
Protea mellifera Thunb., Ceres, *Dippenaar* (Stell. 912 ; v. d. Byl 2615) ; Stellenbosch, *Dippenaar* (Stell. 902).
Protea pulchella Andr., Stellenbosch, *Dippenaar* (Stell. 901).
Protea scabra R. Br., Caledon, *v. d. Byl 2511*, 33212 ; *Dippenaar* (v. d. Byl 2582) ; Elgin, *Dippenaar* (Stell. 904) ; Stellenbosch, *Loseby* (Stell. 903).
Protea sp., near Mont-aux-Sources, *Doidge*, 23420 ; Gordon's Bay, *Loseby* (Stell. 390) ; Groot Drakenstein, *Dippenaar* (Stell. 537).
Leucadendron sp., Stellenbosch, *Dippenaar* (Stell. 409).

Diplocarpon earliana (Ell. & Ev.) Wolf

See *Marssonina Fragariae* (Sacc.) Kleb. ; the perfect stage of this fungus has not been found in South Africa.

Diplocarpon Rosae Wolf

Doidge & Bottomley (1931) 55.

See *Actinonema Rosae* Fr., ; the perfect stage of this fungus has not been found in South Africa.

Entopeltis interrupta (Wint.) V. Höhn.

von Höhnel (1910 a) no. 489 ; Theissen & Sydow (1917 b) 401 ; Doidge (1927 b) 233 ; Doidge & Bottomley (1931) 53.

Asterina interrupta Winter (1884 c) 264 ; Sacc. Syll. Fung. IX : 381.

on **Leucadendron** sp., Muizenberg, *MacOwan*, Type (Rabenh. Wint. Fung. Eur. 3952) 4292, 21943, Kew ; Gordon's Bay, *Loseby* (Stell. 906).

Leucospermum conocarpum R. Br., Hottentots Holland, *MacOwan* (Rabenh. Fung. Eur. 3951) 4291, 21942, Kew ; Hout Bay, *Bottomley*, 8918 ; Kirstenbosch, *Bottomley*, 32760.

Protea cynaroides Linn., Bain's Kloof, *Doidge*, 9782.

Protea lepidocarpodendron Phill., Lion's Head, 1028.

Parastigmatea nervisita Doidge

Doidge (1921 c) 22.

on **Stephania abyssinica** (Dill. & Rich.) Walp., Maritzburg, *Doidge*, 1656, 8252, Type ; Town Bush Valley, *Doidge*, 15416 ; Piesanghoek, *Bosman*, 29867 ; Entumeni, *Haygarth*, 14180 ; Chase Valley, *Wager*, 32462.

Stigmatea Grewiae P. Henn.

P. Hennings (1903) 165 ; Sacc. Syll. Fung. XVII : 650.

on **Grewia caffra** Meisn., between Kutue and Sobi, *Baum 759*, Type, Kew ; Stella Bush, *Doidge*, 2522 ; Amanzimtoti, *Doidge*, 1654 ; Isipingo, *Doidge*, 6643.

Stigmatea Platylophi Verw. & du Pless.

Verwoerd & du Plessis (1932) 316 ; Nel (1942) 22.

on **Platylophus trifoliatus** Don., Knysna, *v. d. Byl 2627*, Type.

Stigmatopeltis Royenae Doidge

Doidge (1927 b) 232.

on **Royena lucida** Linn., Haenertsburg, *Doidge*, 17727, Type.

MICROTHYRIACEAE.

PROTOTHYRIAE.

Prototthyrium Tricalysiae Doidge

Doidge (1948 a) 868.

on **Tricalysia lanceolata** Schum., Umtentweni, *Wager*, 32676, Type ; Louis Trichardt, *V. A. Putterill*, 11825 ; Woodbush, *Doidge*, 1782 ; Eshowe, *Laughton*, 33554.

HEMIHYSTERIAE.

Cocconia capensis Doidge

Doidge (1921 c) 8.

on **Ochna arborea** Burch., Howieson's Poort, *Doidge*, 12373, Type: Van Staden's Pass, *Doidge*, 17248 ; Pirie Forest, *Doidge*, 22416 ; Storms River, *Doidge*, 17168 ; Knysna, *Bottomley*, 32256.

Cocconia concentrica Syd.

Theissen & Sydow (1915) 215 ; Doidge (1921 c) 7 ; Dippenaar (1930) 13 ; Nel (1942) 22 ; Hansford (1946 a) 170.

Hysterostomella concentrica Syd., H. & P. Sydow (1909) 544 ; Sacc. Syll. Fung. XXII : 556.

on **Trichilia Dregeana** E. Mey., Zululand, *v. d. Byl 229* ; La Mercy, *v. d. Byl 772*, 31952.
Trichilia emetica Vaill., Umbelusi Riv., *Howard*, 1019, Type ; Lourenço Marques, *T. R. Sim*, 508, Kew ; Rikatli, *Junod*, 11728.

Cocconia porrigo (Cooke) Sacc.

Sacc. Syll. Fung. VIII : 738 ; Theissen & Sydow (1915) 214, (1917 b) 408 ; Doidge (1921 c) 7 ; Dippenaar (1930) 12 ; Nel (1942) 22.

Rhytisma porrigo Cooke (1882 a) 129.

on **Olea capensis** Linn., Inanda, *Medley Wood 660*, Type, 10702, Kew : Van Staden's Pass. *Doidge*, 10888 ; without locality, *Keet* (v. d. Byl 102) ; Genadendal, *Verwoerd* (v. d. Byl 1297).
Olea laurifolia Lam., near Mont-aux-Sources, *Doidge*, 14105.

Cycloschizon Brachylaenae (Rehm) P. Henn.

P. Hennings (1902) 39 ; Sacc. Syll. Fung. XVII : 896 ; Theissen & Sydow (1915) 207, (1917 b) 407 ; Doidge (1921 c) 6 ; Dippenaar (1930) 286 ; van der Byl (1926 c) 286.

Schneepia Brachylaenae Rehm., Pazschke (1901) (173).

on **Brachylaena discolor** DC., Lemana, *Doidge*, 1789 ; Port Shepstone, *Pole Evans*, 5605 ; Drikerfontein, *Moon*, 1887 ; Umgeni, *v. d. Byl 563*, 10088 ; Woodbush, *Doidge*, 17729.
Brachylaena elliptica (Thunb.) Less., East London, *Doidge*, 10912.
Brachylaena glabra (Linn. f.) Druce, Port Elizabeth, *West*, 716 ; Van Staden's Pass, *Bottomley*, 9562, *Pole Evans*, 11445, *Doidge*, 17249 ; Assegai Bush, *Doidge*, 17243 ; Storms River, *Laughton*, 34303.
Brachylaena neriifolia (Linn.) R.Br., Cape, *MacOwan* (Rabenh. Fung. Eur. 4264) ; Bain's Kloof, *Doidge*, 981, *v. d. Byl 2077* ; Montagu Pass, *Doidge*, 17131 ; Jonkershoek, *v. d. Byl 2198* ; Knysna, *v. d. Byl 2278* ; Genadendal, *Verwoerd* (v. d. Byl 1289) ; Stellenbosch, *Nel* (v. d. Byl 1443) ; Somerset West, *Mally*, (Stell. 848) ; Stellenbosch, *Verwoerd* (Stell. 339) ; Joubertshoek, Stellenbosch, *du Plessis* (Stell. 861).
Brachylaena sp., Rikatli, *Junod*, 11724 ; Stellenbosch, *Loseby* (Stell. 560) ; Caledon, *Verwoerd* (Stell. 130).

Cycloschizon fimbriatum Doidge

Doidge (1921 c) 6 ; Hopkins (1938 a) 103, (1943) 182.

? as *Parasterina* sp., Nel (1942) 18.

on **Catha edulis** Forsk., Letaba Drift, *Doidge*, 1797, Type, 1833 ; Louis Trichardt, *V. A. Putterill*, 11835 ; Tzaneen, *Liebenberg*, 30963, 32723 ; Rikatli, *Junod*, 11682 ; Mazoe, *Eyles 7148*, Kew ; ? Rhodesia, *Eyles* (v. d. Byl 2631).

Echidnodes Acokantherae Doidge

Doidge (1942 a) 322 ; Hansford (1946 a) 172.
Asterinella Acokantherae Doidge (1920 g) 266, 278 ; Nel (1942) 16.
Prillieuxina Acokantherae (Doidge) Ryan, Stevens & Ryan (1939) 77.
sub *Dimerosporium Acocantherae* P. Henn., P. Sydow (1899 a) (132) ; Medley Wood (1898) 11.
on **Acokanthera spectabilis** Hk., f., Durban, *Medley Wood 6450*, 333, 9510, *Medley Wood 6461*, 341, 9521 ; Tongaat, *v. d. Byl*, 6951, Type ; Bonza Bay, *Bottomley*, 26683 ; Ebb and Flow, Wilderness, *Doidge*, 17112.
Acokanthera venenata G. Don., East London, *Doidge*, 10915, 12393 ; Alexandria, *Doidge*, 22348 ; Bracken Hill, Knysna, *v. d. Byl 2315*.
Carissa bispinosa (Linn.) Desf., Assegai Bush, *Doidge*, 17238 ; Louis Trichardt, *V. A. Putterill*, 11849 ; Mtunzini, *Laughton*, 33533 ; Highbury, *Doidge*, 33159.

Echidnodes africana Doidge

Doidge (1942 a) 324.
Morenoina africana Doidge (1920 g) 242, 281.
on **Dryopteris inaequalis** (Schl.) O. Ktze., Zwartkop, *Doidge*, 11605, Type.

Echidnodes Curtisiae Doidge

Doidge (1948 a) 872.
on **Curtisia faginea** Ait., Deepwalls, *Bottomley*, 32121 a, Type.

Echidnodes durbana (v. d. Byl) Hansf.

Hansford (1946 a) 175, (1948) 819.
Lembosia durbana van der Byl (1929 a) 319 ; Doidge (1942 a) 321 ; Nel (1942) 17.
on **Cassine ? laurifolium** (Harv.) Davison, Durban, *Forbes* (v. d. Byl 2526) Type, 33161.

Echidnodes Hypolepidis Doidge

Doidge (1942 a) 324.
Echidnodella Hypolepidis Doidge (1920 g) 270, 281.
on **Hypolepis sparsisora** (Schrad.) Kuhn., Woodville Forest, *Doidge*, 10930, Type.

Echidnodes lembosioides Doidge

Doidge (1942 a) 321.
Asterinella lembosioides Doidge (1920 g) 267, 279.
on **Balladyna velutina** (Berk. & Burt.) v. Höhn. and **Meliola littoralis** Syd. on leaves of *Canthium Gueinzii* Engl., Buccleuch, *Doidge*, 11574, Type.

Echidnodes natalensis Doidge

Doidge (1942 a) 323 ; Hansford (1946 a) 173.
Lembosia natalensis Doidge (1920 g) 268, 279.
on **Eugenia zuluensis** Dümmer, Krantzkloof, *Doidge*, 8984, Type.

Echidnodes rhoina Doidge

Doidge (1920 g) 269, 280, (1942 a) 323 ; Nel (1942) 17 ; Hansford, (1946 a) 173.
on **Rhus lucida** Linn., Van Staden's Pass, *Doidge*, 10887, Type, 17263 ; Howieson's Poort, *Doidge*, 10957 ; Assegai Bush, *Doidge*, 17244 ; Grahamstown, *Britten*, 14212.
Rhus mucronata Thunb., Knoetze, *v. d. Byl 2300*.
Rhus Schlechteri Diels, Humewood, *Doidge*, 2295.

Echidnodes transvaalensis Doidge
Doidge (1948 a) 873.
on **Eugenia natalitia** Sond., Mariepskop, *Scott*, 34027, Type.

Hysterostomella Bosciae Doidge
Doidge (1948 a) 869.
Cyclotheca Bosciae Doidge (1924 a) 196.
on **Maerua racemulosa** (A. P. DC.) Gilg. & Ben., The Wilderness, *Doidge*, 17125, Type; Knysna, *Laughton*, 32389.
Maerua Legatii Burtt Davy, near Olifants Rivier on road from Tzaneen, *Scott*, 34028.

Hysterostomella opaca (Syd.) Doidge
Doidge (1948 a) 870.
Hysterostomina opaca Syd., H. Sydow (1924 c) 429 ; Dippenaar (1930) 16 ; Nel (1942) 22.
on **Olea foveolata** E. Mey., Knysna, *v. d. Byl 1397*, Type, *2280*, *Otto* (Stell. 342).

Hysterostomella Oxyanthae Doidge
Doidge (1948 a) 870.
Hysterostomina Oxyanthae Doidge (1927 b) 232.
Morenoella Oxyanthae Doidge (1920 g) 270, 281 : van der Byl (1926 c) 286.
on **Oxyanthus Gerrardi** Sond., Woodbush, *Doidge*, 1758, 17725, 28340 ; Louis Trichardt, *V. A. Putterill*, 11850 ; Town Bush Valley, *Doidge*, 9719 ; Table Mt., Natal, *Doidge*, 14970 ; Kentani, *Pegler 2321*, Type 9073, Kew ; Mariepskop, *Scott*, 34040.

Hysterostomella tenella Syd.
H. & P. Sydow (1912 c) 442 ; Pole Evans & Bottomley (1918) 185 ; Doidge (1948 a) 870.
Hysteromina tenella Syd., Theissen & Sydow (1915) 228, (1917 b) 409 ; Doidge (1921 c) 9 ; Sacc. Syll. Fung. XXIV : 410.
on **Asparagus striatus** Thunb., Despatch, *Doidge*, 1241, Type ; Grahamstown, *Britten*, 22339.
Asparagus subulatus Thunb., Kentani, *Pegler 1866*, 2240, 2369.

Lembosiopsis eucalyptina Petrak & Syd.
Petrak & Sydow (1924) 372 ; Doidge & Bottomley (1931) 23 ; Doidge (1942 a) 318.
on **Eucalyptus coriacea** A. Cunn., Jessievale, *D.F.O.*, 17285.
Eucalyptus gigantea Dehnh., Jessievale, *D.F.O.*, 17096, 17266, Type, 20458 ; Insizwa, *D.F.O.*, 20453 ; Ingeli, *D.F.O.*, 20455 ; Kubusi, *D.F.O.*, 20476, 20457; Evelyn Valley, *D.F.O.*, 20619.
Eucalyptus globulus Lab., Woodbush, *Doidge*, 17753.
Eucalyptus hemiphloia F. v. M., Jessievale, *D.F.O.*, 17287.
Eucalyptus obliqua L'Hér., Jessievale, *D.F.O.*, 17286.
Eucalyptus regnens F. v. M., Jessievale, *D.F.O.*, 17265.
Eucalyptus sp., Rosetta, *Sim*, 12494.

Macowaniella congesta (Wint.) Doidge
Doidge (1921 c) 9 ; Dippenaar (1930) 18 ; Doidge & Bottomley (1931) 5 ; Nel (1942) 22.
Lembosia congesta Winter (1884 c) 266 ; Sacc. Syll. Fung. IX : 1105 ; Doidge (1920 g) 268.
sub *Meliola amphitricha* Fr. in Herb. Kew.

on **Carissa bispinosa** (L.) Desf., Cape, *MacOwan 1292*, Type (S.A.M. 33497) Kew ; Isipingo, *Doidge*, 10155 ; Stella Bush, *Bottomley*, 11381 ; Hogsback, *Henderson*, 11345 ; Lovedale, *Doidge*, 10979 ; Howieson's Poort, *Doidge*, 10960 ; Knysna, *Bottomley*, 32239, 32263, *Verwoerd* (Stell. 344), *v. d. Byl 365*, *2290* ; Woodville Forest, *Doidge* ; 10929 ; Lemana, *Doidge*, 1786 ; Woodbush, *Doidge*, 17763 ; Hamanskraal, *Mogg*, 23465.
Carissa grandiflora A.DC., Eshowe, *McClean*, 33091 ; Isipingo, *Wager*, 33085 ; Krantzkloof, *Doidge*, 8983.
Carissa haematocarpa (E. & Z.) DC., Cango Valley, *Doidge*, 10898 ; Grahamstown, *Gane*, 11369.

Macowaniella myrsinicola Doidge

Doidge (1924 a) 196 ; van der Byl (1925 b) 192 ; Dippenaar (1930) 19 ; Doidge & Bottomley (1931) 16.
on **Rapanea melanophleos** Mez., Greytown, *Doidge*, 15529, Type ; Claridge, *Doidge*, 8995 ; East London, *Doidge*, 10908 ; Montagu Pass, *Doidge*, 17105 ; Knysna, *Otto*, (Stell. 343 ; v. d. Byl 1367) ; Woodbush, *Doidge*, 1757.

Morenoina Dracaenae Doidge

Doidge (1948 a) 874.
on **Dracaena Hookeriana** K. Koch, on leaves, Durban, *v. d. Byl 328*, 34481, Type.

Palawania Dovyalidis (Doidge) Nel

Nel (1942) 22 ; Doidge (1948 a) 871.
Palawaniella Dovyalidis Doidge (1924 a) 198 ; Dippenaar (1930) 29.
on **Dovyalis rhamnoides** Harv., The Wilderness, *Doidge*, 17117, Type ; Bathurst Distr., *Doidge*, 12347 ; Knysna, *Laughton*, 32267, *v. d. Byl 2297* ; George, *Verwoerd* (Stell. 347).

Palawania Halleriae (Dipp.) Doidge

Doidge (1948 a) 871.
Byliana Halleriae Dippenaar (1930) 31.
on **Halleria lucida** Linn., Bloukransrivier, *v. d. Byl 2496*, Type, 33592 ; Knysna, *Verwoerd* (Stell. 345).

Palawania orbiculata (Syd.) Doidge

Doidge (1948 a) 870.
Seynesia orbiculata Syd., H. & P. Sydow (1912 a) 39 ; Doidge (1920 g) 242 ; Sacc. Syll. Fung. XXIV : 428.
Palawaniella Eucleae Doidge (1921 c) 16 ; Dippenaar (1930) 30 ; Hansford.
Palawania Eucleae (Doidge) Nel (1942) 22.
Palawaniella orbiculata (Syd.) Doidge (1942 a) 329.
as *Hysterostomina Eucleae* (Doidge) van der Byl (1925 b) 192 ; J. Phillips (1931) 159.
on **Euclea lanceolata** E. Mey., Piesanghoek, *Bosman*, 25868 : Rooiwal, *Bosman*, 29922.
Euclea macrophylla E. Mey., Howieson's Poort, *Doidge*, 12375.
Euclea natalensis A.DC., Letaba Drift, *Doidge*, 1808, Type ; New Agatha, 11384 ; Nelspruit, *Liebenberg*, 29910 ; Magoeba's Kloof, 35165.
Euclea racemosa Murr., Cape Flats, *Dippenaar*, 33885.
Euclea sp., Knysna, *Bottomley & Laughton*, 32248 ; Grahamstown, *Otto* (Stell. 348) ; Rooiwal, *Bosman*, 35168.

Schneepia radiata Doidge

Doidge (1921 c) 5.
Lembosia radiata Doidge (1920 g) 269.
on **Leguminosae** undet., Rikatli, *Junod*, 11729.

MICROTHYRIAE.

Asterinella contorta (Doidge) Hansf.

Hansford (1946 a) 186.
Dothidasteromella contorta Doidge (1920 c) 118.
Isipinga contorta Doidge (1921 c) 15.
on **Trichocladus ellipticus** E. & Z., Brander's High Forest, *v. d. Byl*, 9462, Type : Pirie Forest, *Doidge*, 12300, 22427 ; Hogsback, *K. M. Putterill*, 30095.

Asterinella dissiliens Syd.

H. Sydow (1924 c) 424 ; van der Byl (1925 b) 192 ; J. Phillips (1931) 159 ; Nel (1942) 17 ; Hansford (1946 a) 190, (1948) 812.
Parasterina reticulata Doidge (1924 a) 200 ; Nel (1942) 18 ; Doidge & Bottomley (1931) 19 ; not *Asterina reticulata* (Kalchbr. & Cooke) Doidge.
Asterina dissiliens (Syd.) Doidge (1942 a) 287.
on **Cassine capensis** Linn., Langholm Estates, *Doidge*, 12353 ; Grahamstown, *Burtt Davy*, 2070 ; Lovedale, *Doidge*, 10976 ; Pirie Forest, *Doidge*, 12295 ; Knysna, *v. d. Byl 2311*.
Cassine croceum O. Ktze., Belmont Valley, *Britten*, 22341 ; Strowan, Grahamstown, *Hansford*, 33477 ; Kowie, *Britten*, 21007 ; Kentani, *Pegler*, 2533 ; Pirie Forest, *Doidge*, 12288 ; Storms River, *Laughton*, 32488.
Cassine Kraussiana Bernh., East London, *Doidge*, 12425.
Cassine papillosa O. Ktze., Knysna, *v. d. Byl 1361*, Type, 33143, *Pienaar*, 2435, *Bottomley*, 32244, 32250 ; Deepwalls, *Bottomley*, 32258, 32259 ; Caradoc's Bush, *Bottomley*, 32268 ; Kentani, *Pegler*, 2253, 2533 ; Woodville Forest, *Doidge*, 10941 ; Deepwalls, *J. Phillips* (v. d. Byl 2220) 20383 ; Knysna, *v. d. Byl 360, 363, 1506, 2308, 2312* ; Xumeni Forest, *Doidge*, 29832.
Cassine sp., George, *v. d. Byl 362*.
Gymnosporia buxifolia Szysz., near Durban, *Medley Wood 6452*, 337, 9500, 9518 ; East London, *Doidge*, 10913 ; Empangeni, *v. d. Byl*, 11367 ; Alexandria, *Doidge*, 22404 ; Knysna, *Bottomley*, 31014, 32115, 32242 ; Umhlanga Rocks, *Wager*, 32782 ; East London, *Bartel* (v. d. Byl 2430) ; Zululand, *v. d. Byl 321* ; Groot Rivier, *v. d. Byl 2296* ; Cavendish, *Wager*, 33318.
Gymnosporia Harveyana Loes., Claridge, *Doidge*, 8997 ; Karkloof, *Doidge*, 14947 ; Woodbush, *Doidge*, 17761 ; Entabene, *Laughton*, 33313.
Gymnosporia nemorosa Szysz., Knysna, *Pienaar*, 2429 ; Umgeni, nr. Durban, *Medley Wood*, 9023 ; Kentani, *Pegler 2336*, 9069 ; Port Elizabeth, *Bottomley*, 9558 ; Lovedale, *Doidge*, 10974 ; Langholm Estates, *Doidge*, 12370 ; Howieson's Poort, *Doidge*, 12386 ; Pirie Forest, *Doidge*, 12293 ; van Staden's Pass, *Doidge*, 17262 ; Empangeni, *McClean*, 31077 ; Knysna, *v. d. Byl 2304*.
Gymnosporia peduncularis L. Bolus, nr. Grahamstown, *Britten*, 14219.
Gymnosporia procumbens Loes., Mtunzini, *Laughton*, 33535.
Gymnosporia spp., Groot Rivier, *v. d. Byl 1392* ; Caradoc's Bush, *Bottomley*, 32924.
Lauridia reticulata E. & Z., Woolridge, Begha River Valley, *O. West*, 34029.
Pleurostylia capensis Oliv., Kentani, *Pegler*, 2532.
Pseudocassine transvaalensis (Burtt Davy) Bredell, Mahlabatini, *Gerstner*, 32194 ; Tugela River, near Krantzkop, *Dyer*, 33997.
Putterlickia pyracantha Endl., Amanzi, *Doidge*, 22406 ; Komgha, *E. P. Phillips*, 14151.

Putterlickia verrucosa Szysz., Kentani, *Pegler*, 8782 ; Winkle Spruit, *Doidge*, 9007 ; Umgeni, nr. Durban, *Medley Wood*, 9033 ; Pirie Forest, *Doidge*, 12286, 12330 ; East London, *Doidge*, 12407 ; Alexandria, *Doidge*, 22405.

Var. **senegalensis** Doidge.

Asterina dissiliens var. *senegalensis* Doidge (1942 a) 288, 334.

on **Gymnosporia senegalensis** Loes., Nelspruit, *v. d. Byl*, 7076 ; Rikatli, *Junod*, 11725, Type ; Nelspruit, *Liebenberg*, 29907 ; Sabie, *Wager*, 32413.

Asterinella inconspicua (Doidge) Hansf.

Hansford (1948) 814.

Asteromyxa inconspicua Doidge (1924 a) 199.

Asterina inconspicua Doidge (1942 a) 287.

on **Chilianthus arboreus** A.DC., Van Staden's Pass, *Doidge*, 17252, Type ; Belmont Valley, *Britten*, 22342 ; Brenton, Knysna, *Laughton*, 34290.

Asterinella Mimusopsidis Doidge

Doidge (1922 a) 80, (1942 a) 317 ; Hansford (1946 a) 182.

Prillieuxina Mimusopsidis (Doidge) Ryan, Stevens & Ryan (1939) 81.

on **Mimusops obovata** Sond., Pirie Forest, *Doidge*, 12267, Type ; East London, *Doidge*, 12409 ; Alexandria, *Doidge*, 22369.

Asterinella Pterocelastri Doidge

Doidge (1924 a) 198, (1942 a) 317 ; J. Phillips (1931) 159 ; Hansford (1946 a) 183.

Prillieuxina Pterocelastri (Doidge) Stevens, Stevens & Ryan (1939) 80.

on **Pterocelastrus tricuspidatus** Sond., Storms River, *Doidge*, 17190, Type ; Deepwalls, *Doidge*, 17222.

Pterocelastrus Galpini Loes., Entabene, *Laughton*, 33312.

Asterinella Tecleae Doidge

Doidge (1942 a) 316 ; Hansford (1946 a) 184.

on **Teclea natalensis** Engl., West Wood, Haenertsburg, *Doidge*, 17783, Type.

Asterodothis solaris (Kalchbr. & Cooke) Theiss.

Theissen (1912 c) 179 ; Theissen & Sydow (1915) 232, (1917) 410 ; Doidge (1921 c) 10, (1948 a) 871 ; Dippenaar (1930) 20 ; van der Byl (1926 c) 286 ; J. Phillips (1923) 215, (1931) 159 ; Nel (1942) 21.

Asterina solaris Kalchbrenner & Cooke (1880) 33 ; Sacc. Syll. Fung. I : 42.

on **Olea africana** Mill., Cape, *MacOwan 1307*, Type (Rabenh. Wint. Fung. Eur. 3651) 3991, Kew ; Wellington, *Doidge*, 1033 ; Langholm Estates, *Doidge*, 12346 ; Barberton, *Thorncroft*, 8826 ; Brackenfel, *J. Acocks* (E. L. Stephens 460) 34462.

Olea capensis Linn., van Stadens Pass, *Pole Evans*, 11444 ; Hogsback, *Henderson*, 11339 ; Paddock, *v. d. Byl*, 8375 ; Caradoc's Bush, *Bottomley*, 32254 ; Storms River, *Doidge*, 17173 ; Steelpoort Bosch, *Keet*, 23213.

Olea exasperata Jacq., Belmont Valley, *Doidge*, 10955 ; Uitvlugt Plantations, *Marloth*, 34485 ; Kowie, *Britten*, 14223.

Olea foveolata E. Mey., Assegai Bush, *Doidge*, 17234 ; Storms River, *Laughton*, 34297.

Olea laurifolia Lam., Hogsback, *Henderson*, 11343 ; Kirstenbosch, *Glover*, 10043 ; Deepwalls, *Doidge*, 17198 ; Knysna, *Bottomley*, 32246 ; Howiesons Poort, *Doidge*, 12387 ; Fort Cunynghame, 8896 ; Schwarzwald Forest, *v. d. Byl*, 9464 ; Oribi Flats, *Thode* (v. d. Byl 1) ; Stutterheim, *Laughton*, 33536 ; Amabele, *Liebenberg*, 32893 ; entabene, *Laughton*, 33316 ; Mariepskop, *Scott*, 34042.

Olea Woodiana Knobl., East London, *Doidge*, 10902.

Calopeltis Jasmini Doidge

Doidge (1942 a) 277, 339 ; Hansford (1946 a) 188.
on **Jasminum streptopus** E. Mey., Durban, *Medley Wood*, 9516, Type.

Eupelte amicta Syd.

H. Sydow (1924 c) 426 ; van der Byl (1926 c) 286 ; Doidge (1942 a) 328 ; Hansford (1946 a).
Pycnocarpon amicta (Syd.) Nel (1942) 18.
on **Olea laurifolia** Lam., Haenertsburg, *v. d. Byl 1510*, Type ; Pirie Forest, *Doidge*, 12325.

Ferrarisia Jasmini Doidge.

Doidge (1942 a) 278, 339 ; Hansford (1946 a) 179.
on **Jasminum angulare** Vahl, Kentani, *Pegler*, 2288, Type.

Hysterostoma Acocantherae (P. Henn.) Theiss. & Syd.

Doidge (1941 b) 213 ; Hansford (1946 a) 177.
on **Acokanthera** sp., Schagen, *Liebenberg*, 29906.

Hysterostoma capense Syd.

H. Sydow (1924 c) 428 ; van der Byl (1925 b) 192 ; Dippenaar (1930) 22 ; J. Phillips (1931) 159 ; Nel (1942) 22.
on **Olea exasperata** Jacq., Keurboomsrivier, *v. d. Byl 1337*, Type ; Knysna, *Otto* (Stell. 341.).

Hysterostoma Colae Hansf.

Hansford (1946 a) 177, (1946 b) 196.
on **Cola natalensis** Oliv.. Amanzimtoti, *Doidge*, 1636, Type ; Mt. Edgecombe, *Medley Wood 11558*, 33310.

Hysterostoma Faureae Doidge

Doidge (1924 a) 197 ; Dippenaar (1930) 23 ; Doidge & Bottomley (1931) 62 ; Nel (1942) 22.
on **Faurea McNaughtonii** Phill., Gouna Forest, *J. Phillips* (v. d. Byl 2217) 17293, Type.

Hysterostoma microspora Doidge

Doidge (1927 b) 231.
on **Cassipourea Gerrardi** Alst., Haenertsburg, *Doidge*, 17726, Type ; Woodbush, *Doidge*, 17781.

Hysterostoma orbiculata Syd.

Theissen & Sydow (1915) 239 ; Doidge (1921 c) 13 ; Sacc. Syll. Fung. XXIV : 413 ; Doidge & Bottomley (1931) 69.
Dothidasteromella orbiculata Syd., H. & P. Sydow (1912 a) 41.
on **Olea africana** Mill., Wellington, *Doidge*, 1031, Type ; Port Elizabeth, *West*,1870. East London, *Doidge*, 22408.
Olea capensis Linn., Table Mt., Cape, *Mitchell*, 15038.

Microthyrium maculicolum Doidge

Doidge (1920 g) 241, (1942 a) 278.
sub *Microthyrium annuliforme* Syd., Stevens & Ryan (1939) 20.
on **Capparis citrifolia** Lam., Durban, *Bottomley*, 11668, Type.

Microthyrium ranulisporum Doidge

Doidge (1927 b) 235, (1942 a) 277.
on **Scolopia Mundtii** Presl., Komgha, *E. P. Phillips*, 14152, Type.

Placoasterella Rehmii (P. Henn.) Theiss. & Syd.

Theissen & Sydow (1915) 237 ; Doidge (1912 c) 12, (1942 a) 325 ; Dippenaar (1930) 27 ; Doidge & Bottomley (1931) 5 ; Nel (1942) 108.
Asterella Rehmii P. Henn., Hopkins (1938 a) 103.
as *Parasterella* gen. nov., Nel (1942) 17.
on **Aloe arborescens** Mill., Stutterheim, *Bell Edmonds*, 8899.
Aloe arborescens var. **natalensis**, Maritzburg, *Pole Evans*, 1440.
Aloe mitriformis Mill., Montagu Baths, *Pole Evans*, 9417, Verwoerd (Stell. 346) ; Langebaan, *v. d. Byl 1667*, 33172.
Aloe spp., New Hanover, *v. d. Byl*, 8892 ; Salisbury (Rh. 1375).

Pleiostomella Halleriae Doidge

Doidge (1921 c) 17 ; Dippenaar (1930) 31.
on **Halleria elliptica** Linn., Kentani, *Pegler 2348*, Type, 9163 ; Bloukransrivier, *v. d. Byl 2796 ;* Knysna, *Verwoerd*.
Halleria lucida Linn., Louis Trichardt, *V. A. Putterill*, 11847 ; Van Staden's Pass, *Doidge*, 10872 ; Howieson's Poort, *Doidge*, 10959, 12384 ; Buccleuch, *Doidge*, 11585 ; Storms River, *Doidge*, 17183 ; Woodbush, *Doidge*, 17750 ; Stella Bush, *Wager*, 33192 ; Knysna, Verwoerd (Stell. 345).

Polyrhizon Bewsii Doidge

Doidge (1921 c) 12.
on **Cassine aethiopica** Thunb., Bisley, *Bews*, 10087, Type, *Doidge*, 11592.
Cassine sphaerophylla O. Ktze., Bloukransrivier, *du Preez*, 34507 ; Brenton, Knysna, *Laughton*, 35162.

Polyrhizon Celastri Doidge

Doidge (1924 a) 197.
on **Gymnosporia acuminata** Szysz., Deepwalls, *Doidge*, 17207, Type.

Polyrhizon Pterocelastri Doidge

Doidge (1948 a) 871.
on **Pterocelastrus Galpini** Loes., Kromrivier, *Doidge & Bottomley*, 32776, Type.

Polystomella caulicola Doidge

Doidge (1921 c) 16.
on **Asparagus** sp., Aliwal North, *Pienaar*, 2098, Type.

ASTERINACEAE.

Asterina africana (v. d. Byl) Doidge

Doidge (1942 a) 310, 333.
Asterina celtidicola P. Henn. var. *microspora* Doidge (1920 g) 260.
Parasterina africana van der Byl (1929 a) 319 ; Nel (1942) 17.
as *Asterina celtidicola* in Nel (1942) 16.

on **Xylotheca Kraussiana** Hochst., Durban, *Forbes* (van der Byl 2527), Type; Stella Bush, *Bottomley*, 11376, 11378, 11382, *v. d. Byl 742*, 11361, *Schilz*, 14706 ; Durban, *Bottomley*, 11897, 11898, *Pole Evans*, 11899, *Franks*, 8405, *Forbes*, 33160, *v. d. Byl 110*, *742* ; Winkle Spruit, *Doidge*, 9004, 9012 ; Amanzimtoti, *Doidge*, 1683 ; Berea, Durban, *Morgan & Doidge*, 32157.
Oncoba sp., Rikatli, *Junod*, 11732.

Var. **Kiggelariae** Doidge

Doidge (1942 a) 310.
as *Asterina celtidicola*, J. Phillips (1931) 159.
on **Kiggelaria africana** Linn., Keurkloof Forest, *Doidge*, 17111, Type ; Storms River, *Doidge*, 17191 ; Deepwalls, *Doidge*, 17221 ; Woodbush, *Doidge*, 17748 ; Montagu Pass Road, *Doidge*, 17104.

Asterina aulica Syd.

H. Sydow (1938) 185.
Parasterina rigida Doidge (1920 g) 246, 277, not *Asterina rigida* Doidge.
Asterina Oncinotidis Doidge (1942 a) 282.
on **Oncinotis inandensis** Wood & Evans, Buccleuch, *Doidge*, 9722, Type ; Inanda, *Medley Wood 1009*, 32173.

Asterina Bosmanae Doidge

Doidge (1942 a) 291, 333.
on **Chrysophyllum magaliesmontanum** Sond., Rooiwal, *Bosman*, 32808.

Asterina Bottomleyae Doidge

Doidge (1942 a) 286, 333.
on **Ilex mitis** (L.) Radkf., Mont-aux-Sources, Bottomley, 23406, Type ; Woodbush, *Doidge*, 1753, 17780 ; Brander's High Forest, *v. d. Byl*, 9461 ; Buccleuch, *Doidge*, 11563 ; Woodville Forest, *Doidge*, 10943 a ; Klein Kruis Rivier, *Muir 3452*, 32375 ; between Vryheid and Nongomo, *Pole Evans*, 32373 ; Graskop, *Galpin*, 32370 ; Knysna, *Laughton*, 32468, *v. d. Byl 2283*, 33144.

Asterina capparidicola Doidge

Doidge (1942 a) 311, 333.
as *Asterina celtidicola* in Nel (1942) 16.
on **Capparis citrifolia** Lam., Ebb and Flow, Wilderness, *Doidge*, 17123 ; East London, *Doidge*, 12416.
Capparis ? **Volkameriae** DC., Witklip, Port Elizabeth, *v. d. Byl 2492*.
Capparis Zeyheri Turcz., Alexandria, *Doidge*, 22358, 22360, 22361, Type ; Van Staden's Pass, *Doidge*, 17254.

Asterina clausenicola Doidge

Doidge (1920 g) 263, 273, (1942 a) 303 ; van der Byl (1926 c) 286.
on **Clausena anisata** (Willd.) Hk. f., Hilton Road, *Doidge*, 11606, Type ; Buccleuch, *Sim*, 10149 ; Woodbush, *Doidge*, 1754, 17760, 28328.

Asterina Combreti Syd.

Doidge (1920 g) 249, (1942 a) 301.
Hyphaster kutuensis P. Hennings (1903) 169 ; Sacc. Syll. Fung. XVIII : 685.
Asterina (*Dimerosporium*) *Combreti* var. *kutuensis* (P. Henn.) v. Höhnel (1910 b) no. 599.

on **Combretum Baumii** Engl. & Gilg., Kutue, *Baum* 751.
Combretum glomeruliferum Sond., Woodbush, *Doidge*, 17719, 28343 ; Entabeni, *Wager*, 26371.
Combretum Kraussii Hochst., Louis Trichardt, *V. A. Putterill*, 11829 ; Woodbush, *Doidge*, 1773 ; Buccleuch, *Sim.* 10152 ; Springfield, *Medley Wood*, 9021 ; Mariepskop, *Scott*, 34041.

Asterina confluens Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 33 ; Sacc. Syll. Fung. I : 49 ; von Höhnel (1910 a) nr. 490 ; Doidge (1942 a) 325.
on **Canthium ciliatum** O. Kze., Boschberg, *MacOwan 1259, 1331*, Type (Thuem. Myc. univ. 775, sub *Meliola Psilostomae* Thuem.) 12253 Kew.
Doubtful species : according to von Höhnel (l.c.), this is ? *Melasmia confluens* (Kalchbr. & Cooke) v. Höhn.

Asterina crotoniensis (Doidge) Ryan

Stevens & Ryan (1939) 52 ; Doidge (1942 a) 293.
Asterina crotonicola Doidge (1922 a) 76, non Pat.
on **Croton rivularis** Muell., East London, *Doidge*, 12427, Type, 22412 ; Langholm Estates, *Doidge*, 12355 ; Donkerbosch, *Britten*, 22340 ; Alexandria, *Doidge*, 22359 ; Woodville Forest, *Doidge*, 11018.

Asterina delicata Doidge

Doidge (1920 g) 253, 274, (1942 a) 292.
as *Asterina Grewiae* Cooke, J. Phillips (1931) 159.
on **Grewia lasiocarpa** E. Mey., Mayville, *Medley Wood*, 9062, Type ; Kentani, *Pegler 2436*, 10993.
Grewia occidentalis Linn., Pirie Forest, *Doidge*, 12297.

Asterina diplocarpa Cooke

Cooke (1882 a) 129 ; Sacc. Syll. Fung. IX : 381 ; Theissen (1912 b) 14, (1913 a) 106 ; Doidge (1920 g) 263, (1942 a) 305 ; Nel (1942) 16.
Asterina similis Cooke (1882 a) 130 ; Sacc. Syll. Fung. IX : 381.
Seynesia Balansae Speg. var. *africana* Sacc., P. Sydow (1899 a) (133) ; Sacc. Syll. Fung. XVI : 640.
Asterina Balansae (Speg.) Theiss. var. *africana* (Sacc.) Theissen (1913 a) 88 ; Doidge (1920 g) 257.
on **Sida rhombifolia** Linn., Inanda, *Medley Wood 544*, 9505, 10192, Kew.
Sida cordifolia Linn., Inanda, *Medley Wood 601*, Type, 9506, 10194, Kew ; Van Staden's Pass, *Doidge*, 10858 ; Natal, *Medley Wood 6464*, 9507 ; Durban, *v. d. Byl* 7, *739*.

Var. **Hibisci** Doidge

Doidge (1942 a) 306, 334.
on **Hibiscus pedunculatus** Cav., Town Bush Valley, *Doidge*, 9710 ; East London, *Doidge*, 10927 ; Duncairn, *Doidge*, 14952 ; Van Staden's Pass, *Doidge*, 17258, Type ; Deepwalls, *Bottomley*, 32126.

Asterina elegans Doidge

Doidge (1942 a) 311, 334.
sub *Asterina sphaerasca* Thuem., Doidge (1920 g) 262.
on **Capparis citrifolia** Lam., Winkle Spruit, *Doidge*, 9010, Type.
Capparis Gueinzii Sond., Bluff, Durban, *Morgan & Doidge*, 32155.

Asterina erysiphoides Kalchbr. & Cooke emend. Doidge

Kalchbrenner & Cooke (1880) 32 ; Sacc. Syll. Fung. I : 47 ; Doidge (1920 g) 256, (1942 a) 304 ; Theissen (1912 b) 16, (1913 a) 25.

on **Jasminum angulare** Vahl, Kentani, *Pegler 1868*, 9161, Kew ; East London, *Doidge*, 12405 ; Pirie Forest, *Doidge*, 12265 ; Langholm Estates, *Doidge*, 12352 ; Alexandria, *Doidge*, 22367.

Jasminum multipartitum Hochst., Alice, *Doidge*, 10978 ; Springfield, *Medley Wood*, 9018 ; East London, *Doidge*, 12432 ; Tongaat, *v. d. Byl*, 6954.

Jasminum tortuosum Willd., Cape, *MacOwan 1139*, Type, Kew.

Asterina Excoecariae Doidge

Doidge (1920 g) 258, 274, (1942 a) 306.

on **Drypetes arguta** Hutch., Winkle Spruit, *Doidge*, 9009, Type.

Asterina ferruginosa Doidge

Doidge (1920 g) 254, (1942 a) 291 ; van der Byl (1926 c) 286 ; Nel (1942) 16.

on **Cussonia spicata** Thunb., Sea View, Durban, *v. d. Byl 67*, 11360 ; Woodbush, *v. d. Byl 1521* ; Durban, *v. d. Byl 49*.

Cussonia umbellifera Sond., Woodbush, *Doidge*, 1774, Type.

Asterina fimbriata Kalchbr. & Cooke.

Kalchbrenner & Cooke (1880) 33 ; Sacc. Syll. Fung. I : 41 ; Doidge (1920 g) 251, (1942 a) 300.

Meliola Sclerochitonis Kalchbr., Herb. MacOwan, Crypt. Austro-afric. 1290.

Asterina punctiformis Lév. var. *fimbriata* Theissen (1913 a) 67.

on **Hypoestes aristata** R. Br., Inanda, *Medley Wood 608*, 10189, Kew.

Sclerochiton Harveyanus Nees, on leaves, Boschberg, *MacOwan 1290*, Type (S.A.M. 33496) Kew ; East London, *Doidge*, 10900, 10910 ; Pirie Forest, *Doidge*, 12329.

Thunbergia sp., East London, *Doidge*, 12268 ; Buccleuch, *Doidge*, 11584.

Asterina Fleuryae Doidge

Doidge (1942 a) 307, 334.

on **Fleurya** sp., Woodbush, *Doidge*, 28349, Type.

Asterina gerbericola Doidge

Doidge (1924 a) 202, (1942 a) 297 ; Nel (1942) 16.

on **Gerbera cordata** Less., Storms River, *Doidge*, 17175, Type ; Caradoc's Bush, *Bottomley*, 32127 ; Deepwalls, *Bottomley*, 32123 ; Storms River, *Keet & Laughton*, 34292.

Gerbera piloselloides Cass., Deepwalls, *J. Phillips* (v. d. Byl 2223) 20381.

Asterina Grewiae Cooke

Kalchbrenner (1882 a) 130 ; Sacc. Syll. Fung. IX : 382 ; Theissen (1912 c) 189, (1913 a) 76 ; Doidge (1920 g) 253, (1942 a) 292.

as *Asterina delicata* in Nel (1942) 16 ; J. Phillips (1931) 159.

on **Trimeria grandifolia** (Hochst.) Warb., Inanda, *Medley Wood 639*, Type, 12333, Kew ; Pirie Forest, *Doidge*, 12289 ; Goodoo Bush, *Doidge*, 14131 ; Tugela Valley nr. Montaux-Sources, *Doidge*, 14133 ; Keurkloof Forest, *Doidge*, 17128 ; Storms River, *Doidge*, 17184 ; Woodbush, *Doidge*, 17779 ; Lundie's Hill, *Doidge*, 30478 ; Knysna, *Bottomley*, 32245, *v. d. Byl 418* ; Bloukrantz, *v. d. Byl 1394*.

Var. **zonata** Doidge

Doidge (1942 a) 293, 335.

on **Trimeria trinervis** Harv., Howieson's Poort, *Doidge*, 12382, Type.

Asterina Hendersoni Doidge

Doidge (1920 g) 255, 275, (1942 a) 290.
as *Englerulaster orbicularis* (Berk. & Curt.) v. Höhn., van der Byl (1926 c) 286 ; Doidge & Bottomley (1931) 16, J. Phillips (1931) 159.
on **Ilex mitis** (L.) Radlk., Hogsback, *Henderson*, 11341, 11342, Type, *Rattray*, 32372 ; Brander's High Forest, *v. d. Byl*, 9461 ; Van Staden's Pass, *Pole Evans*, 11443, *Doidge*, 10884 ; Woodville Forest, *Doidge*, 10943, *Ballenden*, 32471 ; Storms River, *Doidge*, 17187 ; Assegai Bush, *Doidge*, 17242 ; Alexandria, *Doidge*, 22418 ; Deepwalls, *Doidge*, 17210 ; Caradoc's Bush, *Bottomley*, 32119 ; Bracken Hill, *v. d. Byl 2314* ; Knysna, *v. d. Byl 2266, 2289, Laughton*, 32469 ; Keiskama Hoek, *Stayner*, 32377 ; Jonkershoek, *v. d. Byl 2199* ; Zwartkop nr. Maritzburg, *T. R. Sim*, 10574 ; Buccleuch, *Doidge*, 11563 ; Woodbush, *Doidge*, 1753, *K. M. Putterill*, 32470, *v. d. Byl 1516* ; Duivelskantoor, *Pole Evans*, 32376 ; Ncaga Mt., *Galpin 9869*, 32374.

Asterina infuscans Wint.

Winter (1885 b) 24 ; Theissen (1913 a) 28 ; Doidge (1942 a) 325.
Asterella infuscans (Wint.) Sacc. Syll. Fung. IX : 394.
on **Euclea undulata** Thunb., Boschberg, *MacOwan*.
Doubtful species.

Asterina Knysnae Doidge

Doidge (1942 a) 285, 335.
on **Canthium ciliatum** O. Kze., Deepwalls, *Doidge*, 17226, Type.

Asterina loranthicola Syd.

H. & P. Sydow (1914 b) 266 ; Doidge (1920 g) 263, (1942 a) 302 : Sacc. Syll. Fung. XXIV : 457.
on **Loranthus Dregei** Eckl. & Zeyh., Kentani, *Pegler 2302*, 8863 ; Bluff, Durban, *Morgan & Doidge*, 32156.
Loranthus sp., Quelimane, *Pole Evans*, 7385, Type.

Asterina natalitia Doidge

Doidge (1942 a) 283, 335.
on **Eugenia natalitia** Sond., Woodbush, *Doidge*, 17751, Type ; Mariepskop, *Scott*, 34030.
Eugenia zuluensis Dummer, Xumeni Forest, *Doidge*, 28958, 29837, 29899, 32235 ; Zwartkop, nr. Maritzburg, *Doidge*, 11597, 12438 ; Krantzkloof, *Doidge*, 8984 ; Umzinto Bush, *Wager*, 32683 ; Gala Bush, *Doidge*, 33164.

Asterina nodosa Doidge

Doidge (1942 a) 285, 335.
on **Ilex mitis** (L.) Radlk., Woodville Forest, *Doidge*, 10943, Type.

Asterina opaca Syd.

H. & P. Sydow (1912 a) 38 ; Theissen (1913 a) 113 ; Doidge (1920 g) 255, (1942 a,) 289 ; Sacc. Syll. Fung. XXIV : 471.
on **Chrysophyllum natalense** Sond., Amanzimtoti, *Doidge*, 1663, Type ; Buccleuch, *Doidge* 11555.

Asterina Oxyanthi Doidge

Doidge (1942 a) 284.

Parasterina brachystoma (Rehm) Theiss. var. *laxa* Doidge (1920 g) 245, Nel (1942) 16.

Parasterina laxa Doidge (1924 a) 201, not *Asterina laxa* Wint., van der Byl (1926 c) 286 ; Nel (1942) 17.

on **Oxyanthus Gerrardi** Sond., Woodbush, *Doidge*, 1758, Type, 28326, *v. d. Byl 1534 ;* Berea, Durban, *v. d. Byl 111, 741*, 11017, 11366.

Asterina Pavoniae Werd.

Werdemann (1923) 50 ; Doidge (1942 a) 295 ; Nel (1942) 16.

on **Sida Hislopii** Burtt Davy & Gr., Durban, *v. d. Byl 396*, Type, 33145 ; Umkomaas, *Bottomley*, 11894.

Asterina Peglerae Doidge

Doidge (1920 g) 250, 276, (1942 a) 301.

on **Maerua racemulosa** (A.P.DC.) Gilg. & Ben., Stella Bush, *Schilz*, 14705 : The Wilderness, Doidge, 17124 a.

Maerua sp., Kentani, *Pegler 2354*, 9130, Type.

Asterina pemphidioides Cooke

Doidge (1942 a) 282.

on **Syzygium Gerrardi** (Harv.) Hochst., Woodbush, *Doidge*, 17755, 28338.

Asterina peraffinis Speg.

Doidge (1920 g) 259, (1942 a) 308 ; van der Byl (1926 c) 286 ; Nel (1942) 16.

on **Tylophora Flanagani** Schlecht., Lemana, *Doidge*, 1804 ; Brander's High Forest, *v. d. Byl*, 9458 ; Pirie Forest, *Doidge*, 12304 ; Hoek van Helbosch, *Burtt Davy*, 15498 ; West Wood, Haenertsburg, *Doidge*, 17721 ; Woodbush, *Doidge*, 28345, *v. d. Byl 1653 ;* Stutterheim, *Laughton*, 33534.

Asterina polythyria Doidge

Doidge (1920 g) 258, 276, (1942) 303.

on **Osyridicarpus natalensis** A.DC., Tongaat, *v. d. Byl*, 6949, Type ; Langholm Estates, *Doidge*, 12345 ; Pirie Forest, *Doidge*, 12326 a, 22420.

Asterina radio-fissilis (Sacc.) Theiss.

Theissen (1912 b) 22, (1913 a) 97 ; Doidge (1942 a) 309.

Dimerium radio-fissilis Saccardo (1904) no. 21.

Asterina natalensis Doidge (1920 g) 248, 275.

sub *Asterina tenuis* Wint., Doidge (1920 g) 250.

on **Erythrococca berberidea** Prain, nr. Durban, *Medley Wood 6458 b*, 9524 b.

Ctenomeria capensis (Thunb.) Harv., Winkle Spruit, *Doidge*, 9001 ; Van Staden's Pass, *Doidge*, 17259.

Dalechampia capensis Spreng. f., Amanzimtoti, *Doidge*, 1638 ; Winkle Spruit, *Doidge*, 9003.

Acalypha decumbens Thunb., Van Staden's Pass, *Doidge*, 10862.

Asterina raripoda Doidge

Doidge (1920 g) 254, 276 ; (1942 a) 294.

on **Ansellia africana** Lindl., Zululand, *Franks*, 6687, Type.

Asterina reticulata Kalchbr. & Cooke emend. Doidge

Kalchbrenner & Cooke (1880) 33 ; Sacc. Syll. Fung. I : 40 ; Doidge (1920 g) 252, (1942 a) 296 ; Nel (1942) 16.

Meliola Oliniae Kalchbr. in Herb. MacOwanianum.

Asterostomella reticulata (Kalchbr. & Cooke) v. Höhnel (1910) no. 493 ; Theissen (1913 a) 34.

on **Olinia cymosa** Thumb., Boschberg, *MacOwan 1336*, Type (Rabenh. Wint. Fung. Eur. 3337 ; Rehm. Ascom. 896) 3677, 20800, 21944, Kew ; Goodoo Bush, *Doidge*, 14136 ; Deepwalls, *Doidge*, 17199 ; Knysna, *v. d. Byl 2282*, *2284* ; Addo Bush, *J. Phillips*, 21012 ; Storms River, *Laughton*, 34294.

Olinia emarginata Burtt Davy, Mont-aux-Sources, *Doidge*, 23402 ; Schurink's Kloof, *Obermeyer & Verdoorn*, 30477.

Olinia radiata Hofmeyr & Phill., Ingeli Forest, *Chilvers*, 30462.

Olinia sp., Barberton, *Galpin 1275*, 15497.

Asterina Rinoreae Doidge

Doidge (1942 a) 312, 335.

sub *Asterina ? vagans* Speg., Doidge (1920 g) 261.

sub *Asterina vagans* Speg. var. *subreticulata* Theiss., Stevens & Ryan (1939) 69.

on **Rinorea natalensis** Engl., Buccleuch, *Doidge*, 9704, Type, 11581.

Asterina robusta Doidge

Doidge (1920 g) 256, 277, (1942 a) 288.

Parasterina implicata Doidge (1920 g) 244, 275.

on **Sideroxylon inerme** Linn., Mossel Bay, *Pole Evans*, 9066, Type ; East London, *Doidge*, 10922 ; Langholm Estates, *Doidge*, 12357 ; Kowie, *Britten*, 14221.

Asterina Saniculae Doidge

Doidge (1942 a) 300, 336.

on **Sanicula europaea** Linn., Woodbush, *Doidge*, 28331, Type.

Asterina Scolopiae Doidge

Doidge (1922 a) 77, (1942 a) 299.

on **Scolopia Zeyheri** (Szysz.) Nees, East London, *Doidge*, 12414, Type ; Hogsback, *K. M. Putterill*, 30084 ; Alexandria, *Doidge*, 22422 ; Kentani, *Pegler*, 8393 a.

Scolopia Zeyheri var. **spinosa**, Mossel Bay, *Pole Evans*, 9067 b.

Scolopia Mundtii Presl., Long Ridge, Knysna, *Doidge*, 17227.

Asterina secamonicola Doidge

Doidge (1927 b) 233, (1942 a) 286 ; Hansford (1946 a) 191, (1948) 815.

on **Secamone alpini** Schultes, Woodbush, *Doidge*, 17716, Type ; Mariepskop, *Scott*, 34027.

Asterina sphaerasca Thuem.

von Thuemen (1878 a) 356 ; Sacc. Syll. Fung. I : 40 ; Doidge (1942 a) 326.

on **Capparis Gueinzii** Sond., Olifants Hoek, *Holland*, (MacOwan 1273), Type.

Doubtful species.

Asterina Streptocarpi Doidge

Doidge (1924 a) 203, (1942 a) 296 ; Nel (1942) 16.

on **Streptocarpus Rexii** Lindl., Deepwalls, *Doidge*, 17223, Type, *Laughton*, 30985, *v. d. Byl 2301*.

Streptocarpus sp., Knysna, *Laughton*, 32078.

Asterina Syzygii Doidge

Doidge (1942 a) 284, 336.

as *Parasterina brachystoma* (Rehm) Theiss., Doidge (1920 g) 245 ; van der Byl (1926 c) 286 ; Nel (1942) 17.

on **Syzygium Gerrardi** (Harv.) Hochst., Woodbush, *Gray*, 888, *Doidge*, 1759, 17755, Type, 28337, *v. d. Byl 1514*, *1523* ; Buccleuch, *Doidge*, 9723, *Sim*, 10141 ; Entabeni, *Bosman*, 26113 ; Winter's Kloof, *Doidge*, 12439 ; Mariepskop, *Scott*, 34034.

Asterina tertia Rac. var. **africana** Doidge

Doidge (1920 g) 264, 277, (1942 a) 305.

on **Barleria obtusa** Nees, Winkle Spruit, Franks, 9538.

Dicliptera clinopodia Nees, Lemana, *Doidge*, 1791, Type : Pirie Forest, *Doidge*, 12270.

Dicliptera heterostegia Nees, Mayville, *Medley Wood*, 9028.

Hypoestes aristata R. Br., Inanda, *Medley Wood 608*, 9512 ; East London, *Doidge*, 10923.

Hypoestes verticillaris R. Br., Claridge, *Doidge*, 8998 : Kentani, *Pegler 2317*, 9074, Kew ; Van Staden's Pass, *Doidge*, 10856 : Langholm Estates, *Doidge*, 12356 ; Entumeni, *Haygarth*, 14149 ; Caradoc's Bush, *Bottomley*, 32207.

Asterina toruligena Cooke

Cooke (1882 a) 129 ; Sacc. Syll. Fung. IX : 389 ; Theissen (1912 a) 19 ; Doidge (1942 a) 327.

on living leaves, Inanda, *Medley Wood 559*, *635*, Type, Kew.

Doubtful species.

Asterina Trichiliae Doidge

Doidge (1920 g) 253, (1942 a) 293.

on **Trichilia emetica** Vahl, Winkle Spruit, *Doidge*, 9006, Type : Louis Trichardt, *V. A. Putterill*, 11833.

Asterina Trichocladi Doidge

Doidge (1942 a) 294, 336.

on **Trichocladus crinitus** Pers., Knysna, *Bottomley*, 32231, Type ; Deepwalls, *Bottomley*, 32211.

Asterina uncinata Doidge

Doidge (1920 g) 252, 278, (1942 a) 298.

on **Scolopia Mundtii** Presl., Brander's High Forest, *v. d. Byl*, 9463 b, Type : Goodoo Bush, *Doidge*, 14134 ; Hogsback, *K. M. Putterill*, 30073.

Asterina undulata Doidge

Doidge (1920 g) 258, 278, (1942 a) 296 ; van der Byl (1926 c) 286.

on **Viola abyssinica** Steud., Woodbush, *Doidge*, 1769, Type.

Asterina van der Bylii Werd.

Werdermann (1933) 49 ; Doidge (1942 a) 307 ; Nel (1942) 16.

on **Heteropyxis natalensis** Harv., Krantzkloof, *v. d. Byl 398*, Type : Umzimkulu Gorge, Oribi Flats, *McClean*, 31288 ; Springfield. *Medley Wood*, 9022 ; Krantzkloof, *Doidge*, 8254 ; Barclayvale, *Liebenberg*, 30459 : Sabie River, *Mogg*, 32230 ; Zimbabwe, *v. d. Byl 2470*, 33146.

Asterina Vepridis Doidge
Doidge (1942 a) 289, 337.
on **Vepris lanceolata** Don., Xumeni Forest, *Doidge*, 27742, Type.

Asterina Woodiana Doidge
Doidge (1942 a) 297.
Asterinella Woodiana Doidge (1920 g) 266.
Prillieuxina Woodiana (Doidge) Ryan, Stevens & Ryan (1939) 78.
on **Cryptocarya Woodii** Engl., Mayville, *Medley Wood*, 9025, Type ; Durban, *v. d. Byl*, 11362.

Asterina Woodii Doidge
Doidge (1942 a) 312, 337.
on **Capparis Gueinzii** Sond., Natal, *Medley Wood 6458*, Type, 9524 a.

Asterina xumenensis Doidge
Doidge (1942 a) 295, 337.
on **Lobelia stellarioides** Benth. & Hk., Xumeni Forest, *Morgan & Doidge*, 30483, Type, *Doidge*, 32236.

Asterina Zeyheri Doidge
Doidge (1942 a) 283, 337.
on **Eugenia Zeyheri** Harv., Van Staden's Pass, *Doidge*, 10873 ; Howieson's Poort, *Doidge*, 12377 ; Alexandria, *Doidge*, 22357, Type.

Asterolibertia Burchelliae Doidge
Doidge (1942 a) 315.
Asterinella Burchelliae Doidge (1920 g) 267, 278 ; J. Phillips (1931) 159 ; Nel (1942) 17.
Prillieuxina Burchelliae (Doidge) Ryan, Stevens & Ryan (1939) 77.
on **Burchellia bubalina** (Linn. f.) Sims, Woodville Forest, *Doidge*, 10940, Type ; Keurkloof Forest, *Doidge*, 17121 ; Storms River, *Doidge*, 17162 ; Deepwalls, *Doidge*, 17202 ; Knysna, *v. d. Byl 2285*, *2495*.
Tarenna pavettoides Benth. & Hk., Umtentweni, *Wager*, 32674.

Asterolibertia megathyria Doidge
Doidge (1942 a) 314.
Asterina gibbosa Gaill. var. *megathyria* Doidge (1920 g) 248.
on **Tricalysia lanceolata** (Sond.) Burtt Davy, Amanzimtoti, *Doidge*, 1576 ; Winter's Kloof, *Doidge*, 1624, 8987 ; Kentani, *Pegler 1970*, 8787, Kew ; Claridge, *Doidge*, 8992 ; Durban, *Medley Wood*, 9027 ; Town Bush Valley, *Doidge*, 9707 ; Buccleuch, *Doidge*, 9708, Type, *Sim*, 10151 ; Umkomaas, *Bottomley*, 11887 : Duncairn, *Doidge*, 14957.
Tricalysia Sonderiana Hiern., Natal, *Medley Wood 6452*, 334, 9522 ; Krantzkloof, *Doidge*, 8985.
Tricalysia ? **capensis** (Meisn.) Sim, Entabene, *Laughton*, 33315.

Var. **Randiae** Doidge
Doidge (1942 a) 315, 338.
on **Randia dumetorum** Lam., Durban, *Medley Wood*, 9029 ; Amanzimtoti, *Doidge*, 1682 ; Umgeni, *Medley Wood*, 9031 ; Lemana, *Doidge*, 1792, Type.
Canthium capensis Sond., Hogsback, *Henderson*, 11348.
Canthium Gueinzii Sond., Hogsback, *Henderson*, 11347.

Clypeolella Psychotriae Doidge

Doidge (1942 a) 313.

Calothyrium Psychotriae Doidge (1922 a) 76, not Ryan.

on **Psychotria capensis** Vatke, Amanzimtoti, *Doidge*, 1575, Type.

Clypeolella rhamnicola Doidge

Doidge (1942 a) 314.

Asterina rhamnicola Doidge (1920 g) 255, 277 ; van der Byl (1925 b) 192 ; J. Phillips (1931) 159 ; Nel (1942) 16.

on **Rhamnus prinoides L'Hérit.**, Woodbush, *Doidge*, 1752, Type, 17737, 28341 ; Kentani, *Pegler 2315*, 2287, 9068, Kew ; Pirie Forest, *Doidge*, 12294 ; Brander's High Forest, *v. d. Byl*, 9463 a ; Deepwalls, *Doidge*, 17214 ; Keurkloof Forest, *Doidge*, 17115 ; Storms River, *Doidge*, 17179 ; nr. Mont-aux-Sources, *Doidge*, 14135 ; Lundie's Hill, *Doidge*, 30509 ; Marwaqa Forest, *Morgan & Doidge*, 30900 ; Knysna, *v. d. Byl 400*, *2274*, *2281*.

Isipinga areolata Doidge

Doidge (1921 c) 15 ; Dippenaar (1930) 25 ; Hansford (1946 a) 193.

Hysterostoma areolata (Doidge) Nel (1942) 22.

on **Euclea natalensis** A.DC., Isipingo, *Doidge*, 6647, 10153, Type ; Durban, *Medley Wood*, 347, 9520 ; Umgeni, *Doidge*, 8986 ; Doonside, *v. d. Byl*, 11363, 32456 ; Pirie Forest, *Doidge*, 22414 ; Alexandria, *Doidge*, 22362 ; Natal coast, *v. d. Byl 122* ; Mtunzini, *Laughton*, 33526.

Lembosia Phillipsii Doidge

Doidge (1942 a) 319 ; Hansford (1946 a) 194.

Morenoella Phillipsii Doidge (1924 a) 205 ; Doidge & Bottomley (1931) 58 ; J. Phillips (1924) 288, (1931) 159 ; Nel (1942) 17.

on **Ocotea bullata** E. Mey., Montagu Pass, *Doidge*, 17127 ; Deepwalls, *Doidge*, 17205, Type, *J. Phillips* (v. d. Byl 2257) ; Knysna, *v. d. Byl 2279*.

Lembosia piriensis Doidge

Doidge (1922 a) 78, (1942 a) 320 ; Hansford (1946 a) 194, (1948) 817.

on **Trichocladus ellipticus** Eckl. & Zeyh., Pirie Forest, *Doidge*, 12301 ; Type, Alexandria, *Doidge*, 22426.

Lembosia Wageri Doidge

Doidge (1942 a) 320 ; Hansford (1946 a) 194.

on **Teclea natalensis** Engl., Umhlanga Rocks, *Wager*, 32472, Type ; Phoenix, *Wager*, 33099.

Lembosina Rawsoniae Doidge

Doidge (1942 a) 279, 339.

on **Rawsonia lucida** Harv. & Sond., Hlinza Forest, *Gerstner*, 32662.

Trichasterina Popowiae Doidge

Doidge (1942 a) 279 ; Hansford (1946 a) 191.

Englerulaster Popowiae Doidge (1920 g) 243.

Englera Popowiae (Doidge) Stevens, Stevens & Ryan (1939) 45.

on **Popowia caffra** (Sond.) Hk. f. & Thoms, Buccleuch, *Doidge*, 9714, Type ; East London, *Doidge*, 10917 ; Stella Bush, *v. d. Byl 322*, *541*, 11364, 32133, *Schilz*, 14704 ; Bluff, Durban, *Morgan & Doidge*, 32166 ; Winters Kloof, *Doidge*, 12434.

TRICHOTHYRIACEAE.

Mycolangloisia nitida (Doidge) Hansf.

Hansford (1946 b) 207.

Actinopeltella nitida Doidge (1924 a) 216 ; Hansford (1946 a) 195.

on **Asterina gerbericola** Doidge on *Gerbera cordata*, Storms River, *Doidge*, 17175.

Asterina Streptocarpi Doidge on *Streptocarpus Rexii*, Deepwalls, *Doidge* 17225, Type.

Trichothyrium dubiosum (Bomm. & Rouss.) Theiss.

H. Sydow (1924 c) 435 ; van der Byl (1926 c) 286 ; Doidge & Sydow (1928) 441 ; Nel (1942) 26.

Trichothyrium robustum Doidge (1924 a) 215.

on **Irene scabra** Doidge on *Trichocladus ellipticus*, Hogsback, *K. M. Putterill*, 30094.

Meliola Behniae Syd. on *Behnia reticulata*, Woodbush, *v. d. Byl 1536*, *Doidge*, 1779, 17766, 28466.

Meliola comata Doidge on *Pyrenacantha scandens* Deepwalls, *Doidge*, 17208 b ; Woodville Forest, *Doidge*, 11020 ; Storms River, *Doidge*, 17192.

Trichothyrium elegans Doidge

Doidge (1924 a) 213.

on **Asterinella Pterocelastri** Doidge on *Pterocelastrus tricuspidatus*, Storms River, *Doidge*, 17190 a.

Schiffnerula Gymnosporiae Hansf., on *Gymnosporia nemorosa*, Forest Hall, Knysna, *Doidge*, 17228.

Schiffnerula radians (Syd.) Hansf. on *Cunonia capensis*, Montagu Pass, *Doidge*, 17129, Type ; Storms River, *Doidge*, 17186 ; Deepwalls, *Doidge*, 17220.

TRICHOPELTACEAE.

Trichopeltula Carissae Doidge

Doidge (1922 a) 78.

on **Carissa bispinosa** (L.) Desf., East London, *Doidge*, 10914, Type, 12424 ; Storms River, *Laughton*, 34300.

Trichopeltula kentaniensis Doidge

Doidge (1922 a) 79.

on **Allophylus monophyllus** Radlk., Kentani, *Pegler 2300*, 8865.

Xynalos monospora Baill., Kentani, *Pegler 1999*, Type, 8866 ; Zwartkop, Natal, *Doidge*, 11589.

HEMISPHAERIACEAE.

Chaetopeltopsis sp.

on **Mangifera indica** Linn., leaves, twigs and fruit, Natal and eastern Transvaal (det. Bates).

Micropeltis stigma Cooke

Cooke (1882 a) 128 ; Sacc. Syll. Fung. II : 670.

on **Conopharyngia ventricosa** Stapf, Inanda, *Medley Wood 612* pro parte, Type, Kew.

Micropeltis Trichomanis P. Henn.

P. Hennings (1900 b) 326 ; Sacc. Syll. Fung. XVI : 645 ; Doidge (1942 a) 329.

Phragmothyrium Trichomanis (P. Henn.) v. Höhnel (1912) 347; Stevens & Ryan (1939) 28].

on **Trichomanes pyxidiferum** Linn., Natal, *Medley Wood* ; Horo Bush, *Wager*, 33435.

Microthyriella transvaalensis Doidge

Doidge (1927 b) 240.
on **Gymnosporia** sp., Woodbush, *Doidge*, 17770, Type.

Phragmothyriella parenchymatica Doidge

Doidge (1924 a) 206.
Zukalia parenchymatica Doidge (1920 b) 114.
on **Scutia myrtina** (Burm.) Kze., Xumeni Forest, *Morgan & Doidge*, 29844.
Xymalos monospora Baill., Kentani, *Pegler*, 8864, Type.

Scolecopeltis Cassipoureae Doidge

Doidge (1922 a) 79.
on **Cassipourea verticillata** N.E.Br., Buccleuch, *Doidge*, 11586, Type.

Scolecopeltis Eugeniae Doidge

Doidge (1941 b) 215.
on **Eugenia Zeyheri** Harv., Alexandria, *Doidge*, 22349, Type.

Scolecopeltis Morganae Doidge

Doidge (1941 b) 216.
on **Myrsine africana** Linn., Woodbush, *Morgan & Doidge*, 30487, Type.

Scolecopeltis Myrsinis Doidge

Doidge (1941 b) 216.
on **Myrsine africana** Linn., Woodbush, *Morgan & Doidge*, 30486 ; Entabene, *Laughton*, 33598.

Scolecopeltis Strauchii Doidge

Doidge (1941 b) 217.
on **Pleurostylia capensis** Oliv., Alexandria, *Doidge*, 22371, Type.

Stomiopeltella africana Doidge

Doidge (1927 b) 241.
on **Peddiea africana** Harv., Woodbush, *Doidge*, 17778, Type.

Stomiopeltella petiolaris Doidge

Doidge (1927 b) 241.
on **Cussonia spicata** Thunb., Woodbush, *Doidge*, 17718, Type.

Stomiopeltis Citri Bitanc.

Bates in litt.
sub *Gloeodes pomigena* (Schw.) Colby, Doidge & van der Plank (1931) 173 ; van der Plank (1933) 1 ; Bates (1937 b) 207 Fawcett; (1936) 555.
sub *Leptothyrium Pomi* (Mont. & Fr.) Sacc., Doidge & Bottomley (1931) 45 ; Doidge & v. d. Plank (1931) 173 ; Doidge (1929 b) 323 ; van der Plank (1933) 3 ; Hopkins (1938 a) 118.
on **Citrus maxima** Merr., Mazoe, *Bates* ; Umtali (Rh. 241).
Citrus sinensis Osbeck, Mazoe, *Bates* (Rh. 298) ; Riversdale, S. Rhodesia, (Rh. 1064, 1380) ; White River, v. d. Plank ; Westfalia Estates, 20613 ; Politsi, *Lancefield*, 26374 ; Nelspruit, *Loest*, 33482.

HYSTERIALES.

HYSTERIACEAE.

Bulliardella capensis Doidge

Doidge (1948 a) 875.
on **Gymnosporia procumbens** Loes., twigs, Qolora, *M. Gunn*, 34136, Type.

Gloniella natalensis Doidge

Doidge (1941 b) 214.
Gloniella multiseptata Doidge (1920 c) 119, not Spegazzini.
on **Euphorbia triangularis** Desf., stems, Amanzimtoti, *Doidge*, 6624, Type.

Hysterographium Acaciae Doidge

Doidge (1924 a) 196 ; Doidge & Bottomley (1931) 15.
on **Acacia Giraffae** Burch., Smitskraal, *Burtt Davy*, 1904, Type ; Zwartdam, near Saltpan, Pretoria Distr., *Schaefer*, 33939.

Hysterographium Fraxini (Pers.) deNot., var. **Oleastri** Desm.

Doidge (1924 a) 195 ; Doidge & Bottomley (1931) 69.
on **Olea africana** Mill., twigs, Wellington, *Doidge*, 990 ; Paarl, *Dippenaar*.

Hysterographium spinicolum Doidge

Doidge (1924 a) 195.
on **Acacia litakunensis** Burch., Weenen, 2542, Type.

Pseudographis Chrysophylli Doidge

Doidge (1941 b) 214.
on **Chrysophyllum magalismontanum** Sond., Boschfontein, *Doidge & Bottomley*, 31066, Type.

PHACIDIALES.

PHACIDIACEAE.

Cryptomyces eugeniacearum (Corda) Sacc.

Saccardo, Syll. Fung. VIII : 708.
Rhytisma eugeniacearum Corda (1840) 45.
sub ?*Phyllachora goyazensis* P. Henn., Doidge (1942 b) 453.
on **Eugenia apiculata** DC., South Africa, *Pöppig*.
Eugenia natalitia Sond., Inanda, *Medley Wood 599*, 10701, Kew.
Eugenia sp., South Africa, *Pöppig*.

Cryptomyces Myricae (Mont.) Sacc.

Saccardo, Syll. Fung. VIII : 708.
Rhytisma Myricae Montagne (1843) no. 96.
on **Myrica cordifolia** Linn., Cape, *Boivin*, Kew (ex Herb Montagne).

Phacidium nitidum Welw. & Curr.

Welwitsch & Currey (1868) 279.
on **Parinarium** sp., leaves, Morro de Lopollo, *Welwitsch*.

PEZIZALES.

PEZIZACEAE.

Ascobolus stercorarius (Bull.) Schroet.
van der Byl (1929 b) 103 ; Nel (1942) 10.
Ascobolus furfuraceus Pers., Kalchbrenner (1882 a) 145.
on cow dung, Boschberg, *MacOwan 1267* (S.A.M. 33418) Kew ; Gordon's Bay, *Verwoerd* (Stell. 89 ; v. d. Byl 1161) Kew.

Ascophanus durbanensis v. d. Byl
van der Byl (1925 a) 169 ; Nel (1942) 10.
on dung, Durban, *v. d. Byl 590*, Type.

Ascophanus granulatus (Bull.) Speg.
on cow dung, Boschberg, *MacOwan 1403* (S.A.M. 33397) 20809.

Ascophanus granuliformis (Crouan) Boud. affinis.
Gibbs (1909) 416.
on dung, Matopo Hills, *Cheesman*.

Ascophanus sp.
Nel (1942) 10.
on horse dung, Stellenbosch, Verwoerd (v. d. Byl 1171).

Cheilymenia pulcherrima (Crouan) Boud.
on horse manure, Stellenbosch, *Verwoerd*, Kew.

Cookeina Colensoi (Berk.) Seaver
Peziza (*Hymenoscypha*) *aluticolor* Berk., Kalchbrenner (1882 a) 144; v. d. Byl (1929 a) 319.
Geopyxis aluticolor Berk., Sacc. Syll. Fung. VII : 65.
on wood and bark, Inanda, *Medley Wood 678*, 11045 ; Boschberg, *MacOwan 1101* ; Nottingham Road, *v. d. Byl 543*, 12491 ; Buccleuch, *Leighton*, 11689 ; Town Bush Valley, *Rump 309*, 28706; ? on wood, Teyateyaneng, *Hean*, 33504.

Discina (?) submembranacea P. Henn.
Hennings (1895 b) 327 ; Sacc. Syll. Fung. XIV : 747.
on sandy ground, Woodbush, *Schlechter*.

Geopyxis ammophila Dur. & Mont.
van der Byl (1929 b) 103 ; Nel (1942) 20.
on sandy soil, around Hopefield, *v. d. Byl 1181, 1918* ; Langewens, Malmesbury, *v. d. Byl 2727*.

Geopyxis cupularis (Linn. ex Fr.) Sacc.
Peziza cupularis Linn., Thunberg (1800) 182.
Cape, *Thunberg*.

Humaria epitricha Berk.
Sacc. Syll. Fung. VIII : 121.
Peziza epitricha Berk. (1843 b) 103.
on charred wood, Uitenhage, *Zeyher 58*.

Humarina leucoloma (Hedw.) Seaver

on humus and on charred wood, Fountains Valley, *Bottomley*, 28578.

Humarina sp.

on damp soil in greenhouse, Prinshof, *Liebenberg*, 28579.

Lachnea capensis v. d. Byl

van der Byl (1925 a) 169.
Lachnea capensis Lloyd (1922) 1123 ; Stevenson & Cash (1936) 26.
as *Scutellinia capensis* Nel (1942) 21.
on horse dung, Stellenbosch, *Verwoerd* (Stell. 91 ; v. d. Byl 1170) ; Hoha Forest, Insikeni Forest Reserve, *Kauffman*, Type (Lloyd Myc. Coll. 28045) 14483.
Fide Stevenson & Cash (l.c.) the type specimen appears to be a Bulgaria, close to *Bulgaria* (*Sarcosoma*) *Moelleriana* P. Henn., or possibly identical with that species.

Lamprospora leiocarpa (Curr.) Seaver

as *Plicaria leiocarpa* Curr., Lloyd (1922) 1160.
on ground, Stellenbosch Flats, *Duthie 313*, 31480.

Lasiobolus equinus Karst.

Sacc. Syll. Fung. VIII : 537.
Ascobolus ciliatus Schum. (?- *A. ciliatus* Berk.) Kalchbrenner (1882 a) 145.
on cow dung, Somerset East, *MacOwan 1403*; on horse manure, Stellenbosch, *Verwoerd*, Kew.

Melastiza Charteri (Smith) Boud.

on dead wood, Cathedral Peak, *Lawrence*, 33913.

Patella albida (Schaeff.) Seaver

Lachnea hemispherica (Wigg. ex Fr.) Gill., Lloyd (1916 d) L. 63 :4 ; van der Byl (1922 d) 283.
? as *Scutellinia hemispherica*, Nel (1942) 21.
on soil, Stellenbosch, *Krige* (Duthie 427), *Verwoerd* (Stell. 94 ; v. d. Byl 1144)].

Patella coprinaria (Cooke) Seaver

Cheilymenia coprinaria Boud., van der Byl (1929 b) 103.
as *Scutellinia coprinaria*, Nel (1942) 21.
on dung, Gordon's Bay, *Verwoerd* (Stell. 92 ; v. d. Byl 1162).

Patella Lusatiae (Cooke) Seaver

Peziza (*Scutellinia*) *Lusatiae* Cooke, Kalchbrenner (1882 a) 144.
Lachnea Lusatiae Cooke, Sacc., Syll. Fung. VIII : 178.
on rotten wood, Boschberg, *MacOwan 1130*, Kew.

Patella scutellata (Linn.) Morgan

Simpson & Talbot (1946) 132.
on rotten wood amongst moss, Xumeni Forest, *Doidge*, 28317 ; ? Boschberg, *MacOwan 1130* (S.A.M. 33404) ; on fallen *Olea*, Qudeni Forest, *Simpson & Talbot*, 34943.

Peziza abietina Pers.

? on timber, Jubilee Mine, Pilgrim's Rest, *Lurie 28*, 28760.

Peziza africana v. d. Byl

on ground in old stable, Stellenbosch, *Verwoerd* (v. d. Byl 1706).

Peziza Cyphellum Kalchbr.

in Herb. ? nom. nud.

on old trunks in bush, Boschberg, *Tuck*, *MacOwan 1101* (S.A.M. 33392) 20838.

Peziza nilgherrensis Cooke

in Herb. ? nom. nud.

on bark, Inanda, *Medley Wood 549*, 9471, 11048 ; ? Nottingham Road, *v. d. Byl 544* 12490.

Peziza repanda Pers.

on rotten wood, Xumeni Forest, *Doidge*, 28318 ; on damp soil, Kingwilliamstown, *Leighton*, 28956.

Peziza vesiculosa Bull.

Berkeley (1876 a) 176.

on damp, clayey soil, Lion's Head, above Kloof Road, *Eaton*, Kew ; ? on paper buried in soil, Prinshof, *Storey*, 30987.

Phillipsia domingensis Berk.

Helotium purpuratum Kalchbr., von Thuemen (1880) no. 1614 ; Sacc. Syll. Fung. X : 7.
Phillipsia kermesina Kalchbrenner & Cooke (1880) 25 ; Kalchbrenner (1882 a) 144 ; Sacc. Syll. Fung. VIII : 151.

on fallen, decaying branches, Boschberg, *MacOwan 1102* (Thuem. Myc. univ. 1614 ; Roum. Fung. Sel. Exsicc. 4634 ; S.A.M. 33418) 21957, Kew ; Natal, *Medley Wood 411*, Kew.

Plectania coccinea (Scop.) Fuck.

Peziza coccinea Jacq., Kalchbrenner (1882 a) 144.
Sarcoscypha coccinea Jacq., Sacc. Syll. Fung. VIII : 154.

on dead twigs, Somerset East, *MacOwan 1126 b* ; Fountains Valley, *Bottomley*, 14497 ; *Reinecke*, 21214, *Bottomley & Louwrens*, 28586 ; ? Haenertsburg, (T.R.L. 271).

Plectania occidentalis (Schw.) Seaver

on dead twigs, Cathedral Peak, *Lawrence*, 33915.

Pyronema omphaloides (Bull.) Fuck.

Hopkins (1938 a) 104.
Pyronema confluens (Pers.) Tul., Eyles (1924 b) 748, (1926) 649 ; Verwoerd (1929 b) 27. as *Pyronema* sp., Nel (1942) 21.

on soil, Eldorado (Rh. 1) ; Salisbury (Rh. 1398) ; on soil in tobacco seed beds, *Eyles* (v. d. Byl 206) ; Stellenbosch, *Verwoerd ;* on burnt ground, Grahamstown, *Archibald*, 33432 ; Mamagalieskraal, *Venter*, 33507.

Rhizina inflata (Schaeff.) Karst.

on wood, Knysna, *Laughton*, 34391.

Rhizina resupinata Lloyd

Lloyd (1923) 1179 ; Stevenson & Cash (1936) 26.

on surface of clayey soil, Papegaaisberg, *Duthie 306* (Lloyd Myc. Coll. 32508) 31474.

Doubtful species.

Saccobolus depauperatus (Berk. & Br.) Phill.

Gibbs (1909) 416.

on dung, Matopo Hills, *Cheesman*.

HELVELLACEAE.

Helvella mitra Linn.

on damp soil, Rosebank, *Bottomley*, 24355 ; in pine woods, off Newlands Av., *Bottomley*, 24386.

Morchella conica Pers.

Marloth (1913) 23, Pl. IV ; van der Byl (1922 d) 283, (1929 b) 103.

on ground, Stellenbosch, *Duthie ;* near water's edge, Debbe's Ravine, *Bottomley*, 24345 ; Cape Town, *v. d. Byl* ; Cape, Kew (ex Herb. Cooke) ; on bed of wattle tan, King-williamstown, *Leighton*, 28955 ; on ground, Knapdaar, *Gideon Joubert*, 14639 ; Zoutpansberg, 407 ; Retreat, *Marloth*, 11818.

Morchella esculenta (Linn.) Pers.

Berkeley (1876 a) 176.

on Ground, Groote Schuur, *Eaton*, Kew ; in woods near Cape Town, *MacOwan* (S.A.M. 33381) Kew.

It seems probable that these two specimens are *Morchella conica ;* the latter species is common at the Cape, and there is no recent record of *M. esculenta*.

HELOTIALES.

DERMATEACEAE.

Angelina nigro-cinnabarina Berk. & Curt.

von Thuemen (1878 a) 356.

on bark of living trees, Somerset East, *MacOwan 1265*.

Belonidium capense (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung., VIII : 503.

Helotium capense Kalchbrenner & Cooke (1880) 25 ; Kalchbrenner (1882 a) 144.

on decaying wood, Inanda, *Medley Wood 180*, *520*, *531*, 9469, 10403, 10404, 11142, Kew ; Somerset East, *MacOwan*.

Bulgariastrum africanum Syd.

H. & P. Sydow (1915 b) 42 ; Doidge (1948 a) 875.

on **Capparis Rudatisii** Gilg. & Ben., Friedenau, Natal, *Rudatus 1388*, Type ; Somerset East, *MacOwan 1273 b*, 20814 ; East London, *Doidge*, 12395.

See also the conidial form of this fungus, *Oncospora viridans* Kalchbr. & Cooke.

Bulgariastrum bullatum Doidge

Doidge (1948 a) 875.

on **Capparis citrifolia** Lam., Langholm Estates, *Doidge*, 12350, Type.

See also the conidial form of this fungus, *Oncospora bullata* Kalchbr. & Cooke.

Dermatea rufa Cooke

Cooke (1879 b) 72 ; Kalchbrenner & Cooke (1880) 25 ; Sacc. Syll. Fung. VIII : 555.

on bark, Natal, *Medley Wood 400*, Type, Kew.

Fabraea litigiosa (Desm.) Sacc.

Saccardo, Syll. Fung. VIII : 735.

Phacidium litigiosum Desm., Kalchbrenner & Cooke (1880) 26 ; Kalchbrenner (1882 a) 145.

Pseudopeziza Ranunculi Fuck. f. *Ranunculi-pinnati* von Thuemen (1877) 409.

on **Ranunculus pubescens** Thunb., Boschberg, *MacOwan 1281* (Thuem. Myc. Univ. 916 ; S.A.M. 33420) 20835, 21973.

Fabraea maculata Atks.

Doidge & Bottomley (1931) 35, 54.

See *Entomosporium maculatum* Lév., the perfect stage of this fungus has not been found in South Africa.

Mollisia aquosa Phill.

on dead wood, Kenilworth, *H. H. W. Pearson.*

Mollisia cinerea (Batsch ex Fr.) Karst.

Sacc. Syll. Fung. VIII : 336 ; Lloyd (1917 a) L. 66 : 3.

Peziza (*Mollisia*) *cinerea* Batsch. ex Fr., Kalchbrenner (1882 a) 144.

on dead leaves under shrubs, Boschberg, *MacOwan 1098*, 20803.

Mollisia subgilva Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 25 ; Kalchbrenner (1882 a) 144 ; Sacc. Syll. Fung. VIII : 338.

on rotten wood, Somerset East, *MacOwan R 22A*, Type, Kew

Naevia rotundata Wain.

Wainio (1901) 450 ; Zahlbruckner, Cat. Lich. II : 107.

on **Zygophyllum orbiculatum** Welw., on stems, near Mossamedes, *Welwitsch 423.*

Pseudopeziza Medicaginis (Lib.) Sacc.

Burtt Davy (1904) 296 ; Eyles (1926) 641 ; Verwoerd (1929 b) 16, (1931 a) 299 ; Doidge & Bottomley (1931) 35 ; Hopkins (1938 a) 104, (1939 a) 26.

on **Medicago sativa** Linn., Pretoria, *L. Turner*, 6934, *Pole Evans*, 263, *Bottomley*, 25465 ; Skinner's Court, 32 ; Groenkloof, *Pole Evans*, 8937 ; Pyramids, *Mogg*, 32695 ; Hennops River, *Doidge*, 2037 ; Warmbaths, 168 ; Potchefstroom, 156 ; Grahamstown, *Mally*, 21988 ; Tulbagh, 1877, *Verwoerd* (Stell. 119) ; Robertson, *Lounsbury*, 689 ; Baakens River Valley, *K. M. Putterill*, 28531 ; Oudtshoorn, Stellenbosch, *Verwoerd ;* Lidgetton, *Fannin*, 31947 ; Bloemfontein, *Potts*, 11309, *Verwoerd ;* Salisbury, *Eyles*, (Rh. 637).

Pseudopeziza Trifolii (Biv.-Bern.) Fuck.

Doidge & Bottomley (1931) 19.
? on **Trifolium** sp., Lydenburg, *Pons*, 32385.

ORBILIACEAE.

Hyalinia crystallina (Quél.) Boud.

? on rotting pine cone, near Rhodes Memorial, Groot Schuur, *Stephens*, 27279.

Calloriopsis gelatinosa (Ell. & Mart.) Syd.

on **Meliola rhoina** Doidge on *Rhus longispina*, Grahamstown, *Hansford*, 33488.

Orbilia rubella (Pers.) Karst.

Peziza (*Mollisia*) *rubella* Pers., Kalchbrenner (1882 a) 144.
Somerset East, *MacOwan 1414*, Kew.

Orbilia xanthostigma Fr.

on fallen trunks of trees in forest, Boschberg, *MacOwan 1161* (S.A.M. 35256).

HYALOSCYPHACEAE.

Solenopezia columbina (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. VIII : 478.
Peziza (*Dasyscypha*) *columbina* Kalchbr. & Cooke, Kalchbrenner (1882 a) 144.
on bark, Somerset East, *MacOwan*.

HELOTIACEAE.

Cenangium pelidnum (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. VIII : 562.
Dermatea pelidna Kalchbrenner & Cooke (1880) 25 ; Kalchbrenner (1882 a) 145.
on decorticated branches, Boschberg, *MacOwan 16*, Kew.

Chlorociboria aeruginosa (Oed.) Seaver

Chlorosplenium aeruginosum deNot., von Thuemen (1876 b) 363 ; Kalchbrenner, (1882 a) 145 ; Sacc. Syll. Fung. VIII : 315.
Helotium aeruginosum Fr., von Thuemen l.c.
on fallen branches, Boschberg, *MacOwan 1016* (S.A.M. 33385) 20839, Kew ; Juanasberg, *Saxton*, 27662 ; Insekeni, *D.F.O.*, 6959 ; Town Bush Valley, *Rump 99*, 28479 ; Town Bush, *Rump*, 28671 ; Xumeni Forest, *Morgan & Doidge*, 30271 ; Woodbush, *Doidge*, 28820, *Wager*, 23614 ; Eshowe, *Laughton*, 33348 ; Haenertsburg (T.R.L. 279).

Dasyscypha calyculaeformis (Schum.) Rehm.

Sacc. Syll. Fung., VIII : 454.
Peziza calyculaeformis Schum., Kalchbrenner (1882 a) 144.
on old wood, Somerset East, *MacOwan 1126 c*.

Dasyscypha lachnoderma (Berk.) Rehm

Sacc. Syll. Fung. VIII : 433.
Peziza (*Dasyscypha*) *Lachnoderma* Berk., Kalchbrenner (1882 a) 144.
on bark, Somerset East, *MacOwan 1126*, Kew, *Tuck 112 b*; ? Natal, *Medley Wood 156, 194*, Kew.

Eubelonis Ocoteae v. d. Byl
van der Byl (1926 b) 284 ; Nel (1942) 14.
on **Ocotea bullata** E. Mey., on bark, Main Forest, Knysna, *J. Phillips* (v. d. Byl 2243) 18150.

Gorgoniceps kuitoënsis P. Henn.
P. Hennings (1903) 167 ; Sacc. Syll. Fung. XVIII : 112.
on **Monotes africanus** A.DC., on the Kuito River, between Kutue and Sobi, *Baum 769*, Kew.

Helotium claro-flavum (Grev.) Berk.
Kalchbrenner (1882 a) 145 ; Medley Wood (1898) 17 ; Sacc. Syll. Fung. VIII : 225.
on bark, Natal, *Medley Wood 178*.

Helotium conformatum Karst.
Kalchbrenner (1882 a) 145 ; Sacc. Syll. Fung. VIII : 211.
on dry leaves, Somerset East, *MacOwan 1098*, ? *1126*, Kew.

Helotium epiphyllum (Pers.) Fr.
Kalchbrenner (1882 a) 145 ; Sacc. Syll. Fung. VIII : 227.
on decaying leaves, Somerset East, *MacOwan*.

Helotium ferrugineum (Schum.) Fr.
Sacc. Syll. Fung. VIII : 233.
Peziza ferruginea (Schum.) Fr., Kalchbrenner & Cooke (1880) 25 ; Kalchbrenner (1882 a) 145.
on twigs, Somerset East, *MacOwan 22*, *1126 b*.

Helotium scutellatum Kalchbr. & Cooke
Cooke (1891 a) 72 ; Sacc. Syll. Fung. X : 8.
on dead coriaceous leaves, Cape, *MacOwan 1098*, Kew.

Ombrophila nigrescens P. Henn.
Lloyd (1917 a) L. 66 : 13.
Knysna, *Duthie 197*.

Sclerotinia fructicola (Wint.) Rehm
(?) Monilia form only.
on **Prunus persica** Sieb. & Zucc., on fruit, Pretoria, *Doidge*, 8870 ; Krugersdorp, 31038.
Prunus salicina Lindl., Brooklyn, Pretoria, *Doidge*.

Sclerotinia sclerotiorum (Lib.) de Bary
du Plessis (1935) 238 ; Dippenaar (1931 a) 3.
? as *Sclerotium* sp., Verwoerd (1929 b) 6.
isolated from
Brassica oleracea Linn. var. **botrytis** Linn., Mossel Bay, *Jordaan*, 33984.
Citrus Limonia Osbeck, fruit, Cape Town, 30369.
Citrus maxima Merr., fruit from Sundays River.
Lactuca sativa Linn., south-western Cape, *Dippenaar*.
Lupinus angustifolius Linn., stems, Stellenbosch, *Dippenaar* (Stell. 540) 33917.
Matthiola incana R.Br., Stellenbosch, *Dippenaar*.
Prunus Armeniaca Linn., twigs and fruit, south-western Cape, *du Plessis ;* Stellenbosch, *Astor*, 21046 ; Tulbagh, Banhoek, Elsenburg, *Verwoerd*.
Salvia splendens Ker., south-western Cape, *Dippenaar*.

Naemacyclus niveus (Pers. ex Fr.) Sacc.

van der Byl (1929 b) 103 ; Doidge & Bottomley (1931) 50 ; Nel (1942) 26.
on **Pinus Thunbergii** Parl., Irene, *Doidge*, 2262.
Pinus spp., Cape Town, Stellenbosch, *v. d. Byl 878*, *Verwoerd* (Stell. 25).

Stictis bella Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 25 ; Kalchbrenner (1882 a) 145 ; Sacc. Syll. Fung. VIII : 684.
on branches, Boschberg, *MacOwan 1288a*, *1090*, Kew.

Stictis radiata Pers. ex Fr.

Kalchbrenner & Cooke (1880) 26 ; Kalchbrenner (1882 a) 145 ; Sacc. Syll. Fung. VIII : 682.
on **Citrus sinensis** Osbeck, dead twigs, Mazoe, *Bates*, 33584 ; Maritzburg, *Wager*, 33766.
on fallen branches, Boschberg, *MacOwan 1288*, *1040*, *1356* (S.A.M. 33442).

Stictis thelotremoides Phill.

Kalchbrenner & Cooke (1880) 25 ; Kalchbrenner (1882 a) 145 ; Sacc. Syll. Fung. VIII : 687.
on branches, Boschberg, *MacOwan 76*, *1356*, Kew.

GEOGLOSSACEAE.

Leotia elegantula Kalchbr.

Kalchbrenner (1882 a) 143 ; Sacc. Syll. Fung. VIII : 611.
on ground, Somerset East, *MacOwan 1310*.

Trichoglossum hirsutum (Pers.) Boud.

amongst grass in marsh, Sabie, *J. M. Sim*, 8827 ; Woodbush (T.R.L. 280 a).

PATELLARIACEAE.

Abrothallus Parmeliarum (Sommerf.) Nyl.

Nylander (1889 a) 12 ; Vouaux (1913) 464.
Lecidea Parmeliarum Sommerf., Stizenberger (1891) no. 1204.
on **Sticta aurata** (Sm. & Sow.) Ach., Durban, *Armstrong*.

Celidium Stictarum (deNot.) Tul.

Vouaux (1914) 168.
on **Lobaria pulmonaria** Hoffm. f. **pleurocarpa** Crombie, on tree trunks, Boschberg, *MacOwan* (Lichen 150).

Mycobilimbia acerbata (Stiz.) Vouaux

Vouaux (1913) 439 ; Sacc. Syll. Fung. XXIV : 1289.
Lecidea acervata Stizenberger (1891) no. 1208.
on **Parmelia subcaperatula** Nyl, on thallus, Krügerspost, nr. Lydenburg, *Wilms*.

Mycobilimbia quaternella (Nyl.) Vouauxs forma

Vouaux (1913) 440 ; Sacc. Syll. Fung. XXIV : 1289.
Opegrapha quaternella Nyl. f. *congesta* Stiz.
on **Pertusaria** sp., on thallus, on rocks near Muizenberg, *MacOwan*.

Nesolechia perforans (Stiz.) Vouaux

Vouaux (1913) 406 ; Sacc. Syll. Fung. XXIV : 1274.
Lecidea perforans Stizenberger (1891) no. 1202.
on **Parmelia perforata** (Wulf) Ach., on thallus, near Lydenburg, *MacLea*.

Patellaria atrata (Hedw.) Fr.

on **Acacia Karroo** Hayne, on living bark, Boschberg, *MacOwan 1058* (S.A.M. 33426).

Phycopsis africana Syd.

H. Sydow (1926) 265 ; van der Byl (1929 b) 104 ; Nel (1942) 10.
on **Pterocelastrus tricuspidatus** Sond., Plettenberg Bay, *v. d. Byl 2298* ; The Heads, Knysna, *v. d. Byl 2490*.

Tryblidaria Breutelii Rehm

Rehm (1903) (173) ; Sacc. Syll. Fung. XVIII : 186.
on **Sterculia** sp., on bark, Bethany Mission, S. Jau, *Breutel*.

Tryblidaria capensis (Stiz.) Vouaux

Vouaux (1914) 138 ; Sacc. Syll. Fung. XXIV : 1293.
Arthonia capensis Stizenberger (1891) no. 1396.
on **Lecidea callaina** Stiz., on thallus, near Cape Town, Lion's Head, *MacOwan*.

Tryblidiella rufula (Spreng. ex Fr.) Sacc.

Saccardo, Syll. Fung. II : 757 ; Wakefield (1936) 53 ; Doidge (1941 b) 215.
Tryblidium rufulum Spreng., Kalchbrenner & Cooke (1880) 26 ; Kalchbrenner, (1882 a) 145.
on dead branches, Somerset East, *MacOwan 1262, 1264, 1265, 1339*, Kew ; Witte Rivier, at Dunbrody, *Hφeg 97* ; Belfast, *Doidge*, 995 ; Woodbush, *K. M. Putterill*, 31035.

Woodiella natalensis Sacc. & Syd.

P. Sydow (1899 a) (133) ; Medley Wood (1898) 15 ; Sacc. Syll. Fung. XVI : 794.
on **Pavetta revoluta** Hochst., on dying leaves, near Durban, *Medley Wood 6451*, 339, 9475.

TUBERALES.

TUBERACEAE.

Pseudobalsamea microspora Diehl & Lamb.

on mushroom beds, Pretoria, *Winckworth*, 32914, 33387.

Terfezia Boudieri Chat.

Pole Evans (1918 a) 117.
in ground, Kalahari and Windhoek.

Terfezia Claveryi Chat.

Marloth (1913) 26 ; Pole Evans (1918 a) 117 ; Ed. Fischer (1938) 37 ; Nel (1942) 26.
in ground, near shrubs of *Acacia hebeclada*, Windhoek, *Marloth* ; Floradora, *Hunter* ; Dunmurray, *v. d. Byl 1448*.

Terfezia Pfeilii P. Henn.

P. Hennings (1897) 75.
on ground, Damaraland, *Pfeil*.

LICHENES

ASCOLICHENES.

PYRENOCARPEAE.

VERRUCARIACEAE.

Staurothele clopima (Wahlbg.) Th. Fr.

Zahlbruckner, Cat. Lich. I : 164.
Verrucaria clopima Wahlbg., Stizenberger (1891) no. 1448.
on rocks, near Muizenberg, *MacOwan.*

Verrucaria erodens Müll-Arg.

J. Müller-Arg. (1888) 208 ; Stizenberger (1891) no. 1457 ; Zahlbruckner, Cat. Lich. I : 39.
on non-calcareous rocks, near Lydenburg, *Wilms.*

Verrucaria microlepidea Zahlbr.

Zahlbruckner (1932) 198.
on schistose rocks, on neck near town, Worcester, *Brunnthaler*, Type.

Var. **hilarior** Zahlbr.

Zahlbruckner (1932) 198.
on rocks, Smitswinkel, *v. d. Byl 1001*, Type.

Verrucaria nigrescens Pers.

Drège (1843) 85 ; Zahlbruckner, Cat. Lich, I : 71.
on rocks, Paarlberg, *Drège.*

Verrucaria rebellans Zahlbr.

Zahlbruckner (1936) 159.
on silicate rocks, The Heads, Knysna, *v. d. Byl 921*, Type.

Verrucaria viridula Ach.

Zahlbruckner, Cat. Lich. I : 104.
Pyrenula tesselata Ach., Drège (1843) 80.
on rocks, du Toits Kloof, *Drège.*

DERMATOCARPACEAE.

Dermatocarpon deserti Zahlbr.

Zahlbruckner (1926 b) 468, Cat. Lich. VIII : 69.
on sandstone rocks, in bed of dry stream, Laingsburg, *Brunnthaler*, Type.

Dermatocarpon Finckei Zahlbr.

Zahlbruckner (1921) 224, (1926 b) 469, Cat. Lich, VIII : 69.
on mica flakes, Haifischinsel, off Lüderitzbucht, *Fincke*, Type.

Dermatocarpon hepaticum (Lam.) Th. Fr.

Zahlbruckner, Cat. Lich. I : 214.
Endocarpon hepaticum Ach., Crombie (1876 a) 180 ; Stizenberger (1891) no. 1433.
on ground, Cape, *Zeyher ;* Table Mt., *Eaton.*

Dermatocarpon peltatum (Tayl.) Zahlbr.

Zahlbruckner, Cat. Lich. I: 232.
Endocarpon peltatum Taylor (1847) 155; Nylander (1858 b) 16; Stizenberger (1891) no. 1442; Hue (1892) 105.
Endopyrenium peltatum (Tayl.) Müll. Arg., J. Müller-Arg. (1888) 546.
on ground, nr. Zwartkops River, nr. Uitenhage, *Zeyher*, Type.

Endocarpon pusillum Hedw.

Zahlbruckner, Cat. Lich. I: 246; van der Byl (1931) 6.
on sandstone rock, Durban, *v. d. Byl 79* (det. A. L. Sm.).

Endocarpon vitellinum Sprengl.

Drège (1843) 52; Zahlbruckner, Cat. Lich. I: 251.
on stones, Witberg, *Drège*.

Normandina pulchella (Borr.) Nyl.

Nylander (1869 a) 14; Crombie (1876 a) 180; Stizenberger (1891) no. 1426; Zahlbruckner, Cat. Lich. I: 198.
on old **Physcia** and **Jungermannia**, Durban, *Armstrong*.
amongst mosses, associated with *Sticta crocata* (L.) Ach. and *Pannaria rubiginosa* (Thunb.) Del., Table Mt., *Eaton*, *MacOwan*.

PYRENULACEAE.

Anthracothecium biferum Zahlbr.

Zahlbruckner (1932) 203.
on smooth bark of trees, nr. Grootrivier, Knysna, *v. d. Byl 840*, Type.

Anthracothecium duplicans (Nyl.) Müll.Arg.

Zahlbruckner, Cat. Lich. I: 460.
on bark, East London, *H. A. Wager 7*, 748.

Anthracothecium pyrenuloides (Mont.) Müll.Arg.

Zahlbruckner, Cat. Lich. I: 467.
Verrucaria pyrenuloides Nylander (1869 a) 15; Stizenberger (1891) no. 1513
Bottaria pyrenuloides Trevis., van der Byl (1931) 6.
on bark, Durban, *Armstrong*; on bark of **Calodendron capensis** Thunb., Keurboomsrivier, *v. d. Byl 283* (det. Vain.).

Anthracothecium thelemorphum (Wain.) Zahlbr.

Zahlbruckner, Cat. Lich. I: 469.
Bottaria thelemorpha Wainio (1901) 452.
on branches of trees in mountains, Serra de Lopollo, *Welwitsch 462*.

Anthracothecium Thwaitesii (Leight.) Müll. Arg.

Zahlbruckner, Cat. Lich. I: 469.
Bottaria Thwaitesii (Leight.) Vain., van der Byl (1931) 6.
on tree trunk, Woodbush, *v. d. Byl 506* (det. Vain.).

Anthracothecium variolosum (Pers. apud Gaudich.) Müll. Arg.
Zahlbruckner, Cat. Lich. I: 469.
Verrucaria variolosa Mont., Stizenberger (1891) no. 1517.
on bark, near Maritzburg, *Rehmann;* near Durban, *Wilms.*

Arthopyrenia alboatra (Krempelh.) Müll. Arg.
J. Müller- Arg. (1883) 306; Zahlbruckner, Cat. Lich. I: 318.
Verrucaria alboatra Krempelh., van der Byl (1931) 6.
on bark of **Celtis Kraussiana** Bernh., Durban, *v. d. Byl 169* (det. Vain.); on **Chaetacme aristata** Planch., Bot. Gard., Durban, *v. d. Byl 73 pr. p.*, (det. A. L. Sm.); on **Xylotheca Kraussiana** Hochst., Durban, *v. d. Byl 172* (det. Vain); on trunk of tree undet., Stella Bush, *v. d. Byl 177* (det. Vain.).

Arthopyrenia capensis Zahlbr.
Zahlbruckner (1921) 224, (1926 b) 470, Cat. Lich. VIII: 83.
on hard rocks, near high tide level, Camps Bay, *Brunnthaler*, Type.

Arthopyrenia Cinchonae (Ach.) Müll. Arg.
J. Müller- Arg. (1883) 287; Zahlbruckner, Cat. Lich. I: 302.
Verrucaria Cinchonae Acharius (1814) 90; Stizenberger (1891) no. 1545.
on bark, Cape, *Drège;* Transvaal, *Wilms.*

Var. **fumida** (Stizenb.) Zahlbr.
Zahlbruckner, Cat. Lich. I: 303.
Verrucaria Cinchonae Ach. var. *fumida* Stizenberger (1891) 216, no. 1545.
on bark, Table Mt., *MacOwan*, Type.

Arthopyrenia fallax (Nyl.) Arn.
Zahlbruckner, Cat. Lich. I: 304.
Verrucaria fallax Nyl., Stizenberger (1891) no. 1547.
on bark of trees, Table Mt., *Wilms.*

Arthopyrenia knysnana Zahlbr.
Zahlbruckner (1932) 200.
on bark of **Acacia melanoxylon** R. Br., nr. Knysna, *v. d. Byl 916.*

Arthopyrenia (?) leucanthes Zahlbr.
Zahlbruckner, Cat. Lich. I: 324.
Verrucaria leucanthes Stirton (1877) 220.
on bark, Boschberg, *MacOwan*, Type.

Arthopyrenia norata Massal.
Massalongo (1861) 90; Zahlbruckner, Cat. Lich. I: 285.
on branches of trees, Cape, *Wawra*, Type.

Arthopyrenia paraphysata Zahlbr.
Zahlbruckner (1932) 200.
on bark of **Podocarpus** sp., Grootrivier, Knysna, *v. d. Byl 900*, Type.

Arthopyrenia pruinoso-grisea (Knight) Müll. Arg.
van der Byl (1931) 6; Zahlbruckner, Cat. Lich, I: 311.
on trunk of **Chaetachme aristata** Planch., Stella Bush, *v. d. Byl 63* (det. A. L. Sm.).

Arthopyrenia recepta Müll. Arg.

J. Müller- Arg. (1883) 306 ; Zahlbruckner, Cat. Lich. I : 325.
Sagedia alboatra Müll. Arg., J. Müller-Arg. (1880 a) 42 (Exclus. synom.).
Verrucaria albo-atra Krempelh. var. *recepta* Stizenberger (1891) 211. no. 1492.
on dead and half decayed bark of palms, near Durban, *Wilms*.

Arthopyrenia simulans Müll. Arg.

J. Müller-Arg. (1887 a) 79 ; Zahlbruckner, Cat. Lich. I : 311.
Verrucaria simulans Stizenberger (1891) 217, no. 1551.
on bark, nr. Lydenburg, *Wilms*.

Clathroporina (?) **locuples** (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. I : 418.
Verrucaria locuples Stizenberger (1891) 210, no. 1485.
on bark of a tree of the family Malvaceae, near Durban, *Wilms*.

Microthelia confluens Müll. Arg.

J. Müller-Arg. (1885) 333 ; Zahlbruckner, Cat. Lich. I : 258.
Verrucaria confluxa Stizenberger (1891) 217, no. 1555.
on bark, Cape.

Microthelia macrocarpoides Zahlbr.

Zahlbruckner (1932) 199.
on smooth bark of **Olea** sp., The Heads, Knysna, *v. d. Byl 661*, Type.

Microthelia micula Körb.

van der Byl (1931) 6 ; Zahlbruckner, Cat. Lich. I : 261.
on **Euphorbia pulcherrima** Willd., Berea, Durban *v. d. Byl 4* (det. A. L. Sm.).

Microthelia uniserialis Zahlbr.

Zahlbruckner, (1932) 199.
on smooth bark, Garden of Eden, Knysna, *v. d. Byl 869*, Type.

Polyblastiopsis alba (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. I : 347.
Polyblastia alba Müll. Arg., J. Müller-Arg. (1886) 318.
Verrucaria alba (Müll. Arg.) Stizenberger (1891) 209, no. 1475.
on bark, nr. Lydenburg, *Wilms* (Lojka Lichenoth. Univ. 99), Type.

Polyblastiopsis transvaalensis (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. I : 353.
Polyblastia transvaalensis Müll. Arg., J. Müller-Arg. (1887) 79.
Verrucaria transvaalensis Stizenberger (1891) 209, no. 1476.
on bark, nr. Lydenburg, *Wilms*, Type.

Porina albella Müll. Arg.

J. Müller-Arg. (1887) 78 ; Zahlbruckner, Cat. Lich. I : 364.
Verrucaria albella Stizenberger (1891) 216, no. 1544.
on branches, near Lydenburg, *Wilms*.

Porina euryspermum Zahlbr.

Zahlbruckner, Cat. Lich. I : 380.
Verrucaria eurysperma Stizenberger (1891) 210, no. 1480.
on quartzite rocks, associated with *Caloplaca ferruginea* Th. Fr., near Muizenberg, *MavOwan*.

Porina ferruginosa Müll. Arg.

J. Müller-Arg. (1886) 317 ; Zahlbruckner, Cat. Lich. I : 381.
Verrucaria ferruginosa Stizenberger (1891) 212, no. 1504.
on bark, nr. Lydenburg, *Wilms* (Lojka Lichenoth. univ. 98) Type.

Porina knysnana Zahlbr.

Zahlbruckner (1932) 201 ; van der Byl (1931) 6.
on quartzite rocks, Knoetze, Knysna, *v. d. Byl 637*, Type.

Porina Tetracerae (Afz.) Müll. Arg.

Zahlbruckner, Cat. Lich. I : 407.
Verrucaria Tetracerae Afz., Nylander (1869 a) 15 ; Stizenberger (1891) no. 1502.
on bark, Durban, *Armstrong*.

Porina variegata Fée.

Zahlbruckner, Cat. Lich. I : 409.
Verrucaria dissipans Nylander (1869 a) 15 ; Stizenberger (1891) no. 1503.
? as *Porina dissipans* Nyl., v. d. Byl (1931) 6.
on bark, Durban, *Armstrong ;* ? on tree trunk, Stella Bush, *v. d. Byl 66* (det. A. L. Sm).

Pseudopyrenula papulosa (Nyl.) Müll. Arg.

J. Müller-Arg. (1883) 248 ; Zahlbruckner, Cat. Lich. I : 357.
Verrucaria papulosa Nyl., Stizenberger (1891) no. 1539.
on bark of a tree of the family Malvaceae, near. Durban, *Wilms*.

Pyrenula aspistea (Afz.) Ach.

Zahlbruckner (1932) 201, Cat. Lich. I : 423.
Verrucaria aspistea Afz., Nylander (1869 a) 15 ; Stizenberger (1891) no. 1527.
on bark, Durban, *Armstrong ;* Hoofbos, Knysna, *v. d. Byl 883 ;* Grootrivier, Knysna, *v. d. Byl 835*.

Pyrenula cerina Eschw. f. **expallens** Zahlbr.

Zahlbruckner (1932) 201.
on bark, Palm Kloof, Victoria Falls, *Brunnthaler*, Type.

Pyrenula cinerea Zahlbr.

Zahlbruckner (1932) 202.
on bark of **Ocotea bullata** E. Mey., Garden of Eden, Knysna, *v. d. Byl 867*, Type.

Pyrenula emergens (Müll. Arg.) Vain.

van der Byl (1931) 7 (not in Zahlbr. Cat. Lich.).
on tree trunk, Woodbush, *v. d. Byl 523*, (det. Vain.).

Pyrenula Knightiana Müll. Arg.

Zahlbruckner, Cat. Lich. I : 433 ; van der Byl (1931) 6.
on tree trunk, Stella Bush, *v. d. Byl 65 pr. p.* (det. A. L. Sm.).

Pyrenula laevigata (Pers.) Arn. var. **incusa** (Flotow) Zahlbr.

Zahlbruckner, Cat. Lich. I : 436.

Verrucaria glabrata Ach. var. *incusa* Flotow (1843) 22 : Krauss (1846) 200.

Cape of Good Hope, without locality, *Krauss*, Type.

Pyrenula mamillana (Ach.) Trevis.

Zahlbruckner, Cat. Lich. I : 436.

Verrucaria santensis Nyl., Stizenberger (1891) no. 1523.

on bark, Boschberg, *MacOwan*.

Pyrenula marginata Hook.

Zahlbruckner, Cat. Lich. I : 438 ; van der Byl (1931) 6.

on trunk of **Albizzia gummifera** (Gmel.) C.A.Sm., Winkle Spruit, *v. d. Byl 55* (det. A.L.Sm.) ; on tree trunk, Stella Bush, *v. d. Byl 115* (det. Merrill).

Pyrenula mastophora (Nyl.) Müll. Arg.

Zahlbruckner, Cat. Lich. I : 438 ; van der Byl (1931) 6.

on tree trunk, Woodbush, *v. d. Byl 482* (det. Vain.).

Pyrenula nitida (Schrad.) Ach.

Zahlbruckner, Cat. Lich. I : 441.

Verrucaria nitida Schrad., Nylander (1869 a) 15 ; Stizenberger (1891) no. 1531.

on bark, Durban, *Armstrong*.

Pyrenula nitidella (Floerke) Müll. Arg.

Zahlbruckner (1932) 201, Cat. Lich. 1 : 455 ; van der Byl (1931) 6.

Verrucaria nitida Ach. var. *nitidella* Floerke, v. Flotow (1843) 22 ; Krauss (1846) 200 ; Stizenberger (1891) no. 1531.

on bark, Cape, without locality, *Krauss ;* Transvaal, *Wilms ;* Conney Glen, Knysna, *v. d. Byl 660 ;* on branches of **Gymnosporia** sp., The Heads, Knysna, *v. d. Byl 934 ;* on **Xylotheca Kraussiana** Hochst., Durban, *v. d. Byl 175* (det. Vain.).

Pyrenula obtecta Merrill

van der Byl (1931) 6, nom nud.

on trunk of **Strychnos** sp., Bot. Gard., Durban, v. d. Byl 112 (det. Merrill).

Pyrenula pleiomeriza (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. I : 450.

Verrucaria pleiomeriza Nylander (1895) 105.

on bark, Moçambique.

Pyrenula subducta (Nyl.) Müll. Arg.

Zahlbruckner, Cat. Lich. I : 453.

Verrucaria subducta Nylander (1869 a) 15 ; Stizenberger (1891) no. 1529.

on bark, Durban, *Armstrong*.

Pyrenula subglabriuscula Vain. var. **natalensis** Vain.

van der Byl (1931) 6 (? Variety undescribed : for species, see Zahlbruckner, Cat. Lich. VIII : 120.)

on tree trunk, Stella Bush, *v. d. Byl 179* (det. Vain.)

Pyrenula transparens Zahlbr.

Zahlbruckner (1932) 202.
on smooth bark, Hoofbos, Knysna, *v. d. Byl 880*, Type.

Pyrenula Wilmsiana Müll. Arg.

J. Müller-Arg. (1887) 70 ; Zahlbruckner, Cat. Lich. I : 456.
Verrucaria Wilmsiana Stizenberger (1891) 214, no. 1526.
on bark, nr Lydenburg, *Wilms*.

TRYPETHELIACEAE.

Melanotheca oculea Stiz.

Stizenberger (1891) 219, no. 1566 ; Zahlbruckner, Cat. Lich. I : 482.
on bark of a tree of the family Malvaceae, near Durban, *Wilms*.

Tomasellia africana Zahlbr.

Zahlbruckner (1932) 203.
on decorticated wood, Knysna, *v. d. Byl 749*, Type.

Trypethelium austro-africanum Zahlbr.

Zahlbruckner (1932) 205.
on bark of **Podocarpus** sp., near Knysna, *v. d. Byl 918*, Type.

Trypethelium eluteriae Spreng.

J. Müller-Arg. (1893 b) 299 ; Schinz (1905) 396 ; Zahlbruckner, Cat. Lich. I : 490.
Trypethelium Sprengelii Ach., Stizenberger (1891 & 1895) no. 1572.
on bark, near Lydenburg, *Wilms ;* near Boroma, *Menyharth 470*.

Trypethelium Phlyctaena Fée

Zahlbruckner, Cat. Lich. I : 498.
Trypethelium bicolor Taylor (1847) 157.
on bark, Howieson's Poort, near Grahamstown, *Zeyher* (Herb. Hook.).

PARATHELIACEAE.

Pleurotrema trichosporum Müll. Arg.

J. Müller-Arg. (1887 a) 78 ; Zahlbruckner, Cat. Lich. I : 510.
Parathelium trichosporum Stizenberger (1891) 217, No. 1555.
Trichotrema trichosporum Clements (1909) 173 ; Clements & Shear (1931) 289.
on bark, Lydenburg, *Wilms*.

ASTROTHELIACEAE.

Parmentaria capensis Zahlbr.

Zahlbruckner (1932) 205 ; van der Byl (1931) 6.
on bark of trees undet., Knoetze, Knysna, *v. d. Byl 674*, Type ; Kidd's Beach, *Schaefer*, 1748.

STRIGULACEAE.

Strigula actinoplacoides Vain.

Vainio (1926) 32 ; van der Byl (1931) 6 ; Zahlbruckner, Cat. Lich. VIII : 602.
on leaves of evergreen tree, near Barberton, *Thorncroft* (v. d. Byl 333), Type.

Strigula africana Wain.

Wainio (1901) 537 ; Zahlbruckner, Cat. Lich. I : 537, VIII : 143.

Var. **natalensis** Vain (? nom. nud.) van der Byl (1931) 6.

on leaves of **Cryptocarya** sp., Howick, *v. d. Byl 214.*

Strigula argyronema Müll. Arg.

Zahlbruckner, Cat. Lich. I : 537.

Strigula nemathora Mont., in Herb. van der Byl.

on leaves, Barberton, *Thorncroft* (v. d. Byl 233, det. Vain.).

Strigula complanata (Fée) Nyl.

Nylander (1858 b) 65 ; Stizenberger (1891) No. 1562 ; Zahlbruckner, Cat. Lich. I: 537.

on living leaves of tree, Cape, *Gueinzius*, *MacOwan ;* on leaves of **Scutia myrtina** (Burm.) Kurz., Durban, *Medley Wood* (Herb. Kalchbr.) ; on leaves of **Magnolia grandiflora** L., without locality, *MacOwan* (Herb. Kalchbr.) ; on **Schmidelia** sp., Kentani, *Pegler 2419*, (S.A.M. 46952).

Var. **virescens** (Kunze) Nyl.

Zahlbruckner, Cat. Lich. I : 538.

Strigula virescens (Kunze) Trevis., Stizenberger (1891) 218, No. 1563.

on leaves of **Thea sinensis** var. **viridis** Pierre and other plants, Natal, *Medley Wood* (Herb. Kalchbr. as *MacOwan 4*) ; Inanda, *Medley Wood*, (*MacOwan 12*, in Herb. Kalchbr.).

Strigula elegans (Fée) Müll. Arg.

van der Byl (1931) 6 ; Zahlbruckner, Cat. Lich. I : 538.

on leaves of **Chaetachme aristata** Planch., Maritzburg, *v. d. Byl 60* (det. A.L.Sm.) ; **Cola natalensis** Oliv., Bluff, Durban, *v. d. Byl 38* (det. A.L.Sm.) ; **Persea americana** Mill., Berea, Durban, *v. d. Byl 30* (det. A.L.Sm.) ; on leaves of tree undet., Durban, *v. d. Byl 61* (det. A.L.Sm.).

Strigula (?) **pallida** Kalchbr.

in Herb. Lojka ; Stizenberger (1891) No. 1564.

on leaves of **Cynodon** sp., Cape, *MacOwan 1329* ('Hymenium vetustate depravatum ' Nyl in litt.; Herb., Kalchbr.).

PYRENIDIACEAE.

Placothelium staurothelioides Müll. Arg.

J. Müller-Arg. (1893 b) 299 ; Zahlbruckner, Cat. Lich. I : 544 ; Stizenberger (1895) No. 1447*bis ;* Schinz (1905) 396.

on non-calcareous rocks, near Boroma, *Menyharth.*

MYCOPORACEAE.

Dermatina pyrenocarpa (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. I : 550.

Mycoporum pycnocarpum Nyl., J. Müller-Arg. (1893 b) 299, (1894) 290 ; Stizenberger (1895) No. 1589*bis ;* Schinz (1905) 396.

on bark, near Boroma, *Menyharth.*

Mycoporellum Lahmii Müll. Arg.

J. Müller-Arg. (1887 a) 78 ; Zahlbruckner, Cat. Lich. I : 555.
Mycoporum Lahmii Stizenberger (1891) 221, No. 1592.
Chlorodothis Lahmii Clements (1909) 173 ; Clements & Shear (1931) 296.
on bark, near Lydenburg, *Wilms*.

GYMNOCARPEAE.

CALICIACEAE.

Sphinctrina fuscescens Nyl.

Nylander (1860 a) 143 ; Lindsay (1869) 145 ; Hue(1890) 238 ; Stizenberger (1890) No. 87 ; Zahlbruckner, Cat. Lich. I : 654.
on thallus of **Pertusaria** sp., Cape of Good Hope, *Drège* (ex Herb. Sonder).

Sphinctrina gelasinata (Wither) Zahlbr.

Zahlbruckner, Cat. Lich. I : 654.
Calicium turbinatum Pers., Drège (1843) 141.
Sphinctrina turbinata deNot., Stizenberger (1895) No. 85.
on ? thallus of **Pertusaria** sp., Cape.

Sphinctrina meridionalis Stizenb.

Stizenberger (1890) 124, No. 86 ; Zahlbruckner, Cat. Lich. I : 657.
on thallus of **Lecidea crassa** Stizenb., Hottentots' Holland Mts., near Sir Lowry Pass, *MacOwan*' Type.

Sphinctrina microcephala (J.E.Sm.) Nyl.

Stizenberger (1890 & 1895) No. 88 ; Zahlbruckner (1926 b) 475, (1932) 206, Cat. Lich. I : 658.
on the thallus of a **Pertusaria** sp., Zwartkops, near Port Elizabeth, *Brunnthaler ;* Brenton, Knysna, *v. d. Byl 678 ;* Transvaal, *Wilms*.

CYPHELIACEAE.

Tylophoron Africanum Vain.

Vainio (1926) 30 ; van der Byl (1931) 6 ; Zahlbruckner, Cat. Lich. VIII : 603.
on bark of **Thespesia** sp., Eshowe, *v. d. Byl 187*, Type.

Tylophoron Bylii Merrill.

van der Byl (1931) 7, nom, nud.
on trunk of **Erythrina caffra** Thunb., Stella Bush, *v. d. Byl 119* (det. Merrill).

SPHAEROPHORACEAE.

Sphaerophorus melanocarpus (Sw.) DC.

Zahlbruckner, Cat. Lich. I : 693.
Lichen fragilis Wither., Thunberg (1800) 180, (1823) 750, non Linn.
Sphaerophoron compressum Ach., Stizenberger (1890) No. 89 ; Nylander (1860 a) 170.
on rocks and amongst moss, Cape, *Thunberg*.

ARTHONIACEAE.

Allarthothelium minimum Vain.

Vainio (1926) 29 ; van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. VIII : 603.
on bark of tree, Onrust, *v. d. Byl 319*, Type.

Arthonia angulata Fée

Zahlbruckner (1926 b) 476, Cat. Lich, II : 9.
on branches of tree undet., Baakens River Valley, Port Elizabeth, *Brunnthaler*.

Arthonia angulosa Müll. Arg.

J. Müller-Arg. (1887 a) 75 ; Willey (1890) 13 ; Stizenberger (1891) No. 1356 ; Zahlbruckner, Cat. Lich. II : 9.
on bark, nr. Lydenburg, *Wilms*, Type.

Arthonia antillarum Nyl.

Stizenberger (1895) No. 1348 ; Zahlbruckner, Cat. Lich. II : 9.
on bark, Zambesi River.

Arthonia calospora Müll. Arg.

Stizenberger (1891) 199, No. 1384 ; van der Byl (1931) 7 ; Zahlbruckner Cat. Lich. II : 17.
on branches of tree undet., Durban, *Wilms ;* on trunk of **Gymnosporia** sp., Durban, *v. d. Byl 139* (det. Vain.).

Arthonia cinnabarina (DC.) Wallr.

Zahlbruckner, Cat. Lich, II : 21.
Arthonia gregaria Korb., van der Byl (1931) 7.
on trunk of **Chaetacme aristata** Planch., Bot. Gard., Durban, *v. d. Byl 73 pr.p.* (det. A.L.Sm.).

Arthonia circumscissa Merrill.

van der Byl (1931) 7, (nom. nud.) not Wain.
on trunk of **Strychnos** sp., Bot. Gard., Durban, *v. d. Byl 114* (det. Merrill).

Arthonia dispersa (Schrad.) Nyl.

J. Müller-Arg. (1893 b) 299 ; Stizenberger (1895) No. 1364*bis ;* Schinz (1905) 396; Zahlbruckner, Cat. Lich. II : 39.
on bark, near Boroma, *Menyharth 491.*

Arthonia hormidiella Stirt.

Stirton (1877) 219 ; Zahlbruckner, Cat. Lich. II : 53.
on bark, Boschberg, *MacOwan*, Type.

Arthonia lecideicarpa Zahlbr.

Zahlbruckner (1932) 207.
on bark of trees, Hoofbos, Knysna, *v. d. Byl 886*, Type.

Arthonia nana Stizenb.

Stizenberger (1891) 195, No. 1347 ; Zahlbruckner, Cat. Lich. II : 70.
on woody parts of **Phoenix dactylifera** Linn., in bush near Durban, *Wilms*, Type.

Arthonia oblongula Müll. Arg.

Stizenberger (1891) No. 1378 ; Zahlbruckner, Cat. Lich. II : 71.
on bark, near Lydenburg, *Wilms*.

Arthonia palmicola Ach.

van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. II : 72.
on trunk of **Eucalyptus** sp., Mossel Bay, *v. d. Byl 375* (det. Vain.).

Arthonia platygraphidea Nyl.

Wainio (1901) 447 ; Zahlbruckner, Cat. Lich. II : 75.
on branches of trees in mountains, Serra de Lopollo, *Welwitsch 462 pr. p.*

Arthonia polymorpha Ach.

Stizenberger (1895) No. 1373 ; Zahlbruckner, Cat. Lich. II : 76.
on bark, Transvaal.

Arthonia propinqua Nyl.

Stizenberger (1891) No. 1374 ; Zahlbruckner, Cat. Lich. II : 78.
on bark, Table Mt., *MacOwan*.

Arthonia pyrenuloides Müll. Arg.

J. Müller-Arg. (1887 a) 75 ; Willey (1890)39 ; Stizenberger (1891) No. 1371 ; (1890)39; Zahlbruckner, Cat. Lich. II : 83.
on bark, near Lydenburg, *Wilms*, Type.

Arthonia rubrofuscescens Vain.

Vainio (1926) 29 ; van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. VIII : 603.
on bark of tree, Durban, *v. d. Byl 181*, Type ; on **Celtis Kraussiana** Bernh., Durban, *v. d. Byl 170* (det. Vain.).

Arthonia variabilis Müll. Arg.

J. Müller-Arg. (1887 a) 75 ; Willey (1890) 13 ; Stizenberger (1891) No. 1355 ; Zahlbruckner, Cat. Lich. II : 106.
on bark, near Lydenburg, *Wilms*, Type.

Arthonia Wilmsiana Müll. Arg.

J. Müller-Arg. (1886) 315 ; Willey (1890) 7 ; Stizenberger (1891) No. 1350 ; Zahlbruckner, Cat. Lich. II : 106.
on bark, near Lydenburg, *Wilms*, Type.

Arthothelium abnorme (Ach.) Müll. Arg.

van der Byl (1931) 7 ; Zahlbruckner, Catl. Lich. II : 118.
on bark of **Eriobotrya japonica** Lindl., Stellenbosch, *v. d. Byl 350* (det. Vain.) ; on **Punica granatum** Linn., Hopefield, *v. d. Byl 396* (det. Vain.).

Arthothelium albidum Müll. Arg.

J. Müller-Arg. (1887 a) 76 ; Zahlbruckner, Cat. Lich. II : 119.
Arthonia albida Willey (1890) 56 ; Stizenberger (1891) 201, No. 1398.
on bark, near Lydenburg, *Wilms*, Type, (Lojka, Lichenoth. univ. 243).

Arthothelium album Zahlbr.
Zahlbruckner (1932) 207 ; van der Byl (1931) 7.
on bark, Knoetze, Knysna, *v. d. Byl 671*, Type.

Arthothelium argenteum (Stizenb.) Zahlbr.
Zahlbruckner, Cat. Lich. II : 121.
Arthonia argentea Stizenberger (1891) 199, No. 1388.
on bark, Table Mt., *Wilms*, Type.

Arthothelium consanguineum Müll. Arg.
J. Müller-Arg. (1888) 207 ; Zahlbruckner, Cat. Lich. II : 123.
Arthonia consanguinea Willey (1890) 56 : Stizenberger (1891) 200, No. 1393.
on bark, Table Mt., *Wilms*, Type.

Arthothelium fusco-nigrum (Nyl.) Müll. Arg.
Zahlbruckner, Cat. Lich. II : 126.
Arthonia fusco-nigra Nyl., Stizenberger (1891) No. 1392.
on bark, Cape.

Arthothelium melanopsis (Stirt.) Zahlbr.
Zahlbruckner, Cat. Lich. II : 129.
Arthonia melanopsis Stirton (1877) 219.
on bark, Boschberg, *Macowan*, Type'

Arthothelium michylum Vain.
Vainio (1926) 28 : van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. VIII : 603.
on bark of **Quercus** sp., Elsenburg, *v. d. Byl 245*, Type.

Arthothelium obvelatum Müll. Arg.
J. Müller-Arg. (1887 a) 76 ; Zahlbruckner, Cat. Lich. II : 130.
Arthonia obvelata Willey (1890) 56 ; Stizenberger (1891) 200, No. 1395.
on bark, near Lydenburg, *Wilms*, Type.

Arthothelium phaeosporum Zahlbr.
Zahlbruckner (1936) 160.
on bark of **Ocotea bullata** E. Mey., Grootrivier, Knysna, *v. d. Byl 837*.

Arthothelium psyllodes Zahlbr.
Zahlbruckner (1936) 161.
on bark, Garies, *v. d. Byl 1181*, Type.

Var. **precursum** Zahlbr.
Zahlbruckner (1936) 161.
on **Aloe dichotoma** Linn.. f., Garies, *v. d. Byl 1180*, Type.

Arthothelium violascens (Flotow) Zahlbr.
Zahlbruckner, Cat. Lich. II : 137.
Arthonia violascens Flotow (1843) 23 ; Krauss (1846) 199 ; Hue (1891) 183 ; Stizenberger (1891) No. 1387.
on bark of trees, in woods near Constantia, *Krauss*.

CRYPTOTHECIACEAE.

Cryptothecia subnidulans Stirt.

A. L. Smith (1926) 189 ; van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. II : 143, VIII : 148.

on bark of **Albizzia gumnifera** (Gmel.) C. A. Sm., Berea, *v. d. Byl ;* on bark of **Chaetacme aristata** Planch., Winkle Spruit, *v. d. Byl 56* (det. A. L. Sm.).

GRAPHIDACEAE.

Graphina Acharii (Fée) Müll. Arg.

Steiner (1907) 646 ; Zahlbruckner (1932) 211, Cat. Lich. II : 391.

Graphis Acharii Fée, Stizenberg (1891) No. 1236 ; Nylander (1869 a) 14.

on bark, Durban, *Armstrong ;* Mt. Mamotsuiri, *Junod 994 ;* on trunks of trees, Woodbush, *v. d. Byl 524.*

Graphina analoga (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. II: 395.

Graphis analoga Nylander (1869 a) 14.

Graphis analoga f. *tetraspora* (Nyl.) Stizenberger (1891) No. 1233.

on bark, Durban, *Armstrong.*

Graphina atrofusca Müll. Arg.

J. Müller-Arg. (1887a) 74 ; Zahlbruckner, Cat. Lich. II : 398,

Graphis atrofusca Stizenburger (1891) 186, No. 1255.

on bark, near Lydenburg, *Wilms.*

Graphina Bylii (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 604.

Graphis Bylii Vainio (1926) 27.

on bark of **Ocotea bullata** E. Mey., Knysna, *v. d. Byl 265*, Type.

Var. **lividula** (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 604 (as var. *livida*).

Graphis Bylii var. *lividula* Vainio (1926) 28 ; van der Byl (1931) 7.

on bark of **Ficus elastica** Roxb., Knysna, *v. d. Byl 277*, Type ; *v. d. Byl 275*, det. Vain

Graphina obtrita (Fée) Müll. Arg.

Zahlbruckner, Cat. Lich. II : 416.

Lecanactis diversa Nyl., Stizenberger (1891) No. 1279.

on bark of a tree of the family Malvaceae, near Durban, *Wilms.*

Graphina pergracilis Zahlbr.

Zahlbruckner (1932) 210.

on bark of **Acacia melanoxylon** R. Br., Knysna, *v. d. Byl 912*, Type.

Graphina platycarpa (Eschw.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 418.

Graphis sophistica Nyl., Stizenberger (1891) No. 1229.

Graphina sophistica (Nyl.) Müll. Arg., van der Byl (1931) 7.

on bark, near Lydenburg, *Wilms* (Lojka, Lichenoth. univ. 90) ; on trunk of **Ailanthus altissima** Sw., Bot. Gard., Durban, *v. d. Byl 13* (det. A. L. Sm.) ; on trunk of **Pandanus variegatus** Miq., Bot. Gard., Durban, *v. d. Byl 12*, (det. A. L. Sm.).

Graphina polycarpa Müll. Arg.

J. Müller-Arg. (1887 a) 63 ; Zahlbruckner, Cat. Lich. II : 420.
Graphis polycarpa Stizenberger (1891) 184, No. 1227.
on bark, Lydenburg, *Wilms*, Type.

Graphis denudans Vain.

Vainio (1926) 28 ; van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. VIII : 603.
on bark of tree, near Durban, *v. d. Byl 126*, Type.

Graphis devestiens Nyl.

apud Stizenburger (1891) 183, No- 1222; Hue (1891) 151; Zahlbruckner, Cat. 302. Lich. II :
on bark of tree of the family Malvaceae, near Durban, *Wilms*, Type.

Graphis diaphoroides Müll. Arg.

J. Müller-Arg. (1886) 312 ; Steiner (1897) 229 ; Stizenberger (1891) No. 1217 ; Zahlbruckner, Cat. Lich. II : 302.
on bark, near Lydenburg, *Wilms* (Lojka, Lichenoth, univ. 91).

Graphis intexta Nyl.

Nylander (1869 a) 14 ; Hue (1891) 160 ; Stizenberger (1891) No. 1223 ; Zahlbruckner, Cat. Lich. II : 313.
on bark, Durban, *Armstrong*, Type.

Graphis intricata Fée

Stizenberger (1891) No. 1226 : Zahlbruckner (1932) 210, Cat. Lich. II : 313.
on bark, near Durban, *Wilms ;* on bark of Canthium sp., Brenton, Knysna, v. *d. Byl 653.*

Graphis scripta (Linn.) Ach.

Acharius (1810) 265 ; Stizenberger (1891) No. 1221 ; van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. II : 324.
Lichen scriptus Linn., Thunberg (1800) 176, (1823) 742.
Opegrapha scripta Ach., Thunberg (1823) 742 ; v. Flotow (1843) 18 ; Krauss (1846) 200.
on bark, South Africa, without locality, *Thunberg*, *MacOwan*, *Breutel ;* nr. Constantia, *Krauss ;* on trunk of **Gymnosporia** sp., Durban, *v. d. Byl 137* (det. Vain.) ; on trunk of **Pandanus** sp., Durban., *v. d. Byl 8* (det. A. L. Sm.) ; on trunk of tree undet., Pinetown, *v. d. Byl 174* (det. Vain.) ; Stella Bush, *v. d. Byl 178* (det. Vain) ; Eshowe, *v. d. Byl 193* (det. Vain.).

Graphis striatula (Ach.) Spreng.

Nylander (1869 a) 13 ; Stizenberger (1891) No. 1241 ; Zahlbruckner, Cat. Lich. II : 354.
on bark, Durban, *Armstrong.*

Graphis subolivacea Zahlbr.

Zahlbruckner (1926 b) 479, Cat. Lich. VIII : 207.
on bark, Skeleton Ravine, Table Mt., *Brunnthaler*, Type.

Helminthocarpon natalense Vain.

Vainio (1926) 27 ; van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. VIII : 604.
on bark of tree, near Durban, *v. d. Byl 182*, Type.

Lithographa cerealis Stizenb.

Stizenberger (1891) 182, No. 1212 ; Zahlbruckner, Cat. Lich. II : 146.
on rocks, in Warm Bokkeveld Mts., near Ceres, *Andr. Smith*, Type.

Lithographa fumida Nyl.

Stizenberger (1891) 182, No. 1211 ; Hue (1891) 149 ; Zahlbruckner, Cat. Lich. II: 149.
on rocks, Table Mt., *MacOwan* (ass. *Siphula tabularis*) Type.

Melaspilea gemella Nyl.

Stizenberger (1891) No. 1404 ; Zahlbruckner, Cat. Lich. II : 275.
on bark of a tree of the family Malvaceae, near Durban, *Wilms*.

Opegrapha adpicta Zahlbr.

Zahlbruckner (1932) 209 ; van der Byl (1931) 7.
on quartz rocks, Conney Glen, Knysna, *v. d. Byl 631*, Type.

Opegrapha agelaea Fée

Stizenberger (1891) No. 1308 ; Zahlbruckner, Cat. Lich. II : 165.
parasitic on the thallus of other lichens, Cape, without locality.

Opegrapha atra Pers.

von Flotow (1843) 23 ; Krauss (1846) 199 ; van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. II : 167.
on trunk of **Albizzia gummifera** (Gmel.) C. A. Sm., Winkle Spruit, *v. d. Byl, 51*, (det. A. L. Sm.); on old trees, near Constantia, *Krauss*.

Opegrapha bacillosa Zahlbr.

Zahlbruckner (1936) 163.
on silicate rocks, The Heads, Knysna, *v. d. Byl 920, 922*, Type.

Opegrapha Bonplandi Fée

Zahlbruckner (1932) 208, Cat. Lich. II : 178.
on bark, Knoetze, Knysna, *v. d. Byl 669, 672*.

Opegrapha capensis Müll. Arg.

J. Müller-Arg. (1888) 207 ; Stizenberger (1891) No. 1310 ; Zahlbruckner, Cat. Lich. II : 181.
on smooth bark, Table Mt., ; on stem of **Phoenix dactilifera** Linn., near Durban, *Wilms*.

Opegrapha diagraphoides Nyl.

Nylander (1869 a) 13 ; Hue (1891) 169 ; Stizenberger (1891) No. 1288 ; Zahlbruckner, Cat. Lich. II : 188.
on bark, Durban, *Armstrong*, Type.

Opegrapha diaphorella Stizenb.

Stizenberger (1891) 190, No. 1294 ; Zahlbruckner, Cat. Lich. II : 195.
on sandstone rocks, near Muizenberg, *MacOwan*, Type.

Opegrapha exiguella Zahlbr.

Zahlbruckner (1936) 162.
on bark of **Gymnosporia** sp., The Heads, Knysna, *v. d. Byl 933*, Type.

Opegrapha exornata Zahlbr.

Zahlbruckner (1921) 226, (1926 b) 476, Cat. Lich. II : 198, VIII : 192.
on limestone, in the neighbourhood of Windhoek, *Fincke*, Type.

Opegrapha interalbata Nyl.

Nylander (1869 a) 13 ; Hue (1891) 171 ; Stizenberger (1891) No. 1289 ; Zahlbruckner, Cat. Lich. II : 211.
on bark, Durban, *Armstrong*.

Opegrapha lactifera Zahlbr.

Zahlbruckner (1936) 161.
on bar' of **Podocarpus** sp., Grootrivier, Knysna, *v. d. Byl 850*, Type.

Opegrapha lyncea (J. E. Sm.) Borr.

Zahlbruckner (1932) 208, Cat. Lich. II : 220.
on branches of **Sideroxylon inerme** Linn., Brenton, Knysna, *v. d. Byl 682*.

Opegrapha medusulina Nyl.

Nylander (1895) 104 ; Zahlbruckner, Cat. Lich. II: 223.
on bark, Moçambique.

Opegrapha Menyharthii Müll. Arg.

J. Müller-Arg. (1893 a) 299 ; Stizenberger (1895) No. 1307*bis* ; Zahlbruckner Cat. Lich. II : 224.
on bark, near Boroma, *Menyharth 467*, Type.

Opegrapha parvula Nyl.

Crombie (1867 a) 179 ; Hue (1891) 170 ; Stizenberger (1891) No. 1323 ; Zahlbruckner, Cat. Lich. II : 228.
on under side of stones, Table Mt., *Eaton*, Type.

Opegrapha prosodea Ach. var. **microcarpella** Zahlbr.

Zahlbruckner (1936) 162.
on bark, Hoofbos, Knysna, *v. d. Byl 887*, Type.

Opegrapha semiatra Müll. Arg.

J. Müller-Arg. (1886) 312 ; Stizenberger (1891) No. 1287 ; Zahlbruckner, Cat. Lich. II : 246.
on bark, near Lydenburg, *Wilms*, Type (Lojka, Lichenoth. Univ. 93 ; S.A.M. 46940).

Opegrapha signatella Vain.

Vainio (1926) 30 ; van der Byl (1931) 7 ; Zahlbruckner, Cat. Lich. VIII : 603.
on branches of **Royena** sp., Howick, *v. d. Byl 211*, Type.

Opegrapha tapetica Zahlbr.

Zahlbruckner (1932) 209 ; van der Byl (1931) 7.
on quartz rocks, The Heads, Knysna, *v. d. Byl 641*, Type.

Opegrapha Zanei Massal.

Massalongo (1861) 80 ; Stizenberger (1891) No. 1319 ; van der Byl (1931) 7 ; Zahlbruckner (1932) 208, Cat. Lich. II : 261.
on limestone, Cape, *Wawra*, Type ; on quartz rocks, The Heads, Knysna, *v. d. Byl 643*.

Phaeographina caesiopruinosa (Fée) Müll. Arg.

Zahlbruckner, Cat. Lich. II : 434.
Graphis caesiopruinosa (Fée) Krempelh., Herb. van der Byl.
on tree trunk, Stella Bush, *v. d. Byl 176* (det. Vain.).

Phaeographina limbata Müll. Arg.

J. Müller-Arg. (1895) 461 ; Zahlbruckner, Cat. Lich. II : 440.
on bark, Cape, *MacOwan*, Type.

Phaeographina subfarinacea (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 446.
Graphis subfarinacea Nylander apud Hue (1891) 153 ; Stizenberger (1891) No. 1231.
on bark, Cape, *Drège*, Type.

Phaeographis conjungens Zahlbr.

Zahlbruckner (1932) 211.
on bark, Garden of Eden, Knysna, *v. d. Byl, 868*, Type.

Phaeographis cryptica Zahlbr.

Zahlbruckner (1932) 212.
on bark of **Acacia melanoxylon** R. Br., near Knysna, *v. d. Byl 913*, Type.

Phaeographis inusta (Ach.) Müll. Arg.

Zahlbruckner (1926 b) 479 ; Cat. Lich. II : 374, VIII : 209.
on branches of trees, Baakens River Valley, *Brunnthaler*.

(? Var. **emergens** Vain.)

Graphis inusta var. *emergens* Vain., van der Byl (1931) 7, nom. nud.
on tree trunk, Onrust, *v. d. Byl 325* (det. Vain.).

Phaeographis mesographa Müll. Arg.

Zahlbruckner, Cat. Lich. II : 441.
Graphis mesographa Nyl., Stizenberger (1891) No. 1251.
on bark, Somerset West, *MacOwan*.

CHIODECTONACEAE.

Chiodecton capense (Massal.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 474.

Enterographa capensis Massalongo (1861) 81 ; Redinger (1938) 68.

Stigmatidium capense Stizenberger (1891) 195, no. 1344.

on volcanic rocks, Cape, *Wawra*, Type.

Chiodecton galactinum Zahlbr.

Zahlbruckner (1932) 212 ; van der Byl (1931) 8.

Enterographa galactina Redinger (1938) 57.

on rocks, The Heads, Knysna, *v. d. Byl 644*, Type.

Chiodecton natalense Nyl.

Nylander (1869 a) 14 ; Hue (1891) 192 ; Stizenberger (1891) No. 1415 ; Zahlbruckner, Cat. Lich. II : 497.

on bark, Durban, *Armstrong*.

Chiodecton sanguineum (Sw.) Wain. f. **rosaceotinctum** (Fr.) Wain.

van der Byl (1931) 8 ; Zahlbruckner, Cat. Lich. III : 498.

without locality, *v. d. Byl*.

Chiodecton subnanum Vain.

Vainio (1929) 25.

on bark, Moçambique (Vainio).

Chiodecton van der Bylii Zahlbr.

Zahlbruckner (1932) 213 ; van der Byl (1931) 8.

Enterographa van der Bylii Redinger (1839) 56.

on bark, Knoetze, Knysna, *v. d. Byl 668*, Type.

Chiodecton venosum (Pers.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 483.

Enterographa venosa Massalongo (1860) 315.

Stigmatidium venosum Nylander (1869 a) 14 ; Stizenberger (1891) No. 1340.

on bark, Durban, *Armstrong* (" Form with pale apothecia and poorly developed thallus " Stizenb. l.c.).

Enterostigma compunctum (Ach.) Müll. Arg.

van der Byl (1931) 8 ; Zahlbruckner, Cat. Lich. II : 501.

on trunk of **Erythrina caffra** Thunb., Durban, *v. d. Byl 120* (det. Merrill).

Glyphis cicatricosa Ach.

Zahlbruckner, Cat. Lich. II : 454.

Graphis cicatricosa Wain., van der Byl (1931) 7

on trunk of **Acacia mollissima** Willd., Howick, v. d. Byl 199 (det. Vain.)

Var. **confluens** (Zenk.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 455.

Graphis cicatricosa var. *confluens* Wain., van der Byl (1931) 7.

Glyphis confluens Zenk., Stizenberger (1891) No. 1419 ; Nylander (1869 a) 15 ; van der Byl (1931) 8.

on bark, Durban, *Armstrong ;* Sarnia, *Hean* (v. d. Byl) ; Eshowe, *v. d. Byl 192* (det. Vain.) ; on trunk of **Ailanthus altissima** Sw., Durban, *v. d. Byl* 16 (det. A. L. Sm.) ; on **Croton** sp., Durban, *v. d. Byl 17* (det. A. L. Sm.) ; on **Euphorbia pulcherrima** Willd., Berea, Durban, *v. d. Byl 5* (det. A. L. Sm.).

Var. **simplicior** (Wain.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 456.
Graphis cicatricosa var. *simplicior* Wain., van der Byl (193) 7.
on rock, Sarnia, Hean (v. d. Byl 306, det. Vain.).

Sarcographa disjectans (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 460.
Medusula disjectans Nylander (1890) 87, not. ; Hue (1891) 166 ; Stizenberger (1891) 189, No. 1282.
on bark of a tree of the family Malvaceae, near Durban, *Wilms.*

DIRINACEAE.

Dirina capensis Fée

apud Nylander (1857) 116, nom. nud. ; Stizenberger (1890) 240, no. 841 ; Hue (1891) 80 ; van der Byl (1931) 8 ; Zahlbruckner (1932) 214, Cat. Lich. II : 506.
Urceolaria capitata Nees apud Stizenberger, l.c.
on rocks, Cape, *Zeyher ;* The Heads, Knysna, *v. d. Byl 636, 684 ;* Langbaan, *v. d. Byl 536 ;* Poole's Bay, *v. d. Byl* 791.

ROCCELLACEAE.

Combea mollusca Nyl.

Nylander (1860 a) 257 ; Hue (1890) 268 ; Darbyshire (1897) 9, (1898 b) 57 ; Stizenberger (1890) No. 212 ; van der Byl (1931) 8, (1933 a) 2 ; Schultze (1907)706 ; Zahlbruckner (1926 a) 126, (1926 b) 483, (1932) 214, Cat. Lich. I : 525.
Parmelia mollusca Acharius (1803) 253 ; Sprengel (1827) 278.
Dufourea mollusca Acharius (1810) 524, (1814) 247
Lichen squarrosus **Dufourea mollusca* Lamarck (1813) 419.
Roccella mollusca Nylander (1857) 97 ; Lindsay (1895) 141.
Combea pruinosa de Notaris (1846) 223 ; Massalongo (1853) 70.
Dactylina mollusca Tuckerman (1872) 7.
on maritime rocks, Cape, *Osbeck, Ecklon, Zeyher, MacOwan ;* Bloubergstrand, *v. d. Byl 1039 ;* on mountain behind Muizenberg, *MacOwan,* 27 ; Poole's Bay, Hermanus, *v. d. Byl 803 ;* Saldanha Bay, *Zeyher ;* Cape Peninsula, *Ecklon ;* on calcareous rock , Swakopmund, *F. & R. Wettstein ;* on granite and on thorny shrubs, Haifischinsel off Lüderitzbucht, *Fincke ;* on granite, slopes of Table Mt., *Brunnthaler ;* on dead plants, Possession Is., *Schulze 21.*

Roccella fuciformis (Linn.) Lam. & DC.

Drège (1843) 159 ; Darbyshire (1898 a) 9 ; van der Byl (1933 a) 4 ; Zahlbruckner, Cat. Lich. II : 516.
on tree trunk, Amatongoland, *J. McKen* (S.A.M. 46894); Port Natal, near the Bay, *Drège.*

Roccella fucoides (Dicks.) Wain.

Wainio (1901) 433 ; van der Byl (1933 a) 3 ; Zahlbruckner, Cat. Lich.II : 518.

Roccella phycopsis Ach., Stizenberger (1890) No. 216 ; Massalongo (1861) 47 ; Darbyshire (1897) 4, (1898 a) 10, (1898 b) 34.

on maritime rocks, Cape Peninsula, *Wawra, Zeyher, Ecklon, Wright.*

Var. **Arnoldi** Zahlbr.

Zahlbruckner, Cat. Lich. II : 519.

Roccella Arnoldi Wainio (1901) 433.

on limestone rocks, between Saco and the mouth of the river Giraûl, *Welwitsch 417 pr. p.*

Roccella hereroensis Wain.

Wainio (1900 b) 4 ; Zahlbruckner, Cat. Lich. II : 520.

on calcareous rocks, Hereroland, *Dinter 93*, Type.

Roccella hypomecha (Ach.) Bory.

Nylander (1868) 509, (1886) 200 ; Hue (1890) 268 ; Stizenberger (1890) No. 39 ; Darbyshire (1897) 5, (1898 a) 10, (1898 b) 37 ; van der Byl (1931) 8, (1933 a) 4 ; Zahlbruckner (1932) 214, Cat. Lich. II : 520.

Parmelia Roccella var. *hypomecha* Acharius (1803) 274.

Parmelia tinctoria var. *hypomecha* Acharius (1810) 439, (1814) 243 ; Thunberg (1832) 750 ; Nylander (1959) 252, (1860) 258.

on maritime rocks, Cape, *Breutel, Mac Owan, Thunberg ;* False Bay, *MacOwan*, 356 ; on mountains behind Muizenberg, *MacOwan* (Lojka, Lichenoth. universalis 56 ; S.A.M. 46978) 145 ; Poole's Bay, *Champion* (v. d. Byl 439, det. Vain.), v. d. Byl 795 ; Hermanus, *du Preez*, (v. d. Byl 564) ; without locality, *Ecklon 24* (S.A.M. 46864), *Pappe* (S.A.M. 46865) ; Kommetje (S.A.M. 25247) ; Brandfontein, Bredasdorp, *C. A. Smith*, 740.

Var. **benguellensis** (Welw.) Wain.

Wainio (1901) 432 ; Zahlbruckner, Cat. Lich. II : 520.

Lecanora benguellensis Nylander (1868) 514.

on rocks, shores of Atlantic Ocean, near Cabo Negro, *Welwitsch 403*, Type ; Hermanus, *Louwrens*, 1733.

Var. **isabellina** Wain.

Wainio (1901) 432 ; Zahlbruckner, Cat. Lich. II : 520.

on maritime rocks, between Mossamedes and Porta Pinda, *Welwitsch 404*, Type.

Roccella linearis Wain.

Var. **guineensis** Wain.

Wainio (1901) 434 ; van der Byl (1931) 8, (1933 a) 3 ; Zahlbruckner (1932) 214, Cat. Lich. II : 520.

on maritime rocks, The Heads, Knysna, *v. d. Byl ;* on trunks of trees, Knoetze, Knysna, *v. d. Byl 667.*

Var. **primaria** Wain.

Wainio (1901) 434 ; Zahlbruckner, Cat. Lich. II : 521.

on **Euphorbia bella,** Mossamedes, *Welwisch 420.*

Roccella Montagnei Bél.

Massalongo (1861) 15 ; Stizenberger (1890) No. 218 ; Darbishire (1897 a) 4, (1898 a) 10, (1898 b) 24 ; van der Byl (1931) 8, (1933 a) 3 ; Zahlbruckner (1926 b) 484, Cat. Lich. II : 521.

on maritime rocks and bark, Durban, *Gueinzius ;* Transvaal, *Rehmann ;* Cape, *Wawra ;* on bark of trees, Knysna, *Duthie* (v. d. Byl 405) ; Durban, *Wager*, 1743 ; Catembe, *Borle 35*, 281 ; Port Alfred, *Penfield*, 205 ; Natal, *Cooper*, 144 ; Mangrove Region, Moçambique, *Junod 572*, 725 ; Moçambique, *Brunnthaler.*

Roccella mossamedana Wain.

Wainio (1901) 433 ; Zahlbruckner, Cat. Lich. II : 521.

on rocks, at top of neck, Serra de Montes Negros, *Welwitsch 419*, Type.

Roccella podocarpa (Welw.) Wain.

Wainio (1901) 435 ; Zahlbruckner, Cat. Lich. II : 521.

on branches of **Tamarix** and **Acacia**, on banks of river Maiombo, near Páo, *Welwitsch 416*.

Roccella tinctoria DC.

von Flotow (1843) 27; Krauss (1846) 201; Nylander (1860a) 258; Massalongo (1861) 47 ; Stizenberger (1890) No. 214 ; Darbishire (1897) 4, (1898 a) 32 ; Zahlbruckner Cat. Lich. II : 522.

Lichen Roccella Linn., Thunberg (1800) 180, (1823) 750.

on rocks, Cape, *Wawra, Thunberg ;* Muizenberg, *Krauss*.

f. complanata Wain.

Wainio (1901) 432 ; Zahlbruckner, Cat. Lich. II : 524.

on rocks, shores of Atlantic Ocean, nr. Cazimba, *Welwitsch 406 pr. p.*

Var. **subpodicellata** Wain.

Wainio (1901) 431 ; Zahlbruckner, Cat. Lich. II : 525.

on maritime rocks, shores of Atlantic Ocean, near Cazimba, *Welwitsch 406 pr. p.*

LECANACTIDACEAE.

Lecanactis bullata Zahlbr.

Zahlbruckner (1932) 214 ; van der Byl (1931) 8.

on quartz rocks, Poole's Bay, *v. d. Byl 796*, Type.

Lecanactis develans Nyl.

Nylander (1890) 87 ; Hue (1891) 157 ; Stizenberger (1891) No. 1280 ; Zahlbruckner, Cat. Lich. II : 535.

on bark of a tree of the family Malvaceae, near Durban, *Wilms*.

Lecanactis emersa (Müll. Arg.) Stizenb.

Stizenberger (1891) 188, No. 1275 ; Zahlbruckner, Cat. Lich. II : 537.

Opegrapha emersa Müll. Arg., J. Müller-Arg. (1887 a) 63.

on bark, near Lydenburg, *Wilms*, Type ; near Kooksbosch, *Breutel*.

Lecanactis ulcerata (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 547.

Opegrapha ulcerata Müll. Arg., J. Müller-Arg. (1895) 456.

on bark, Cape, *MacOwan*, Type.

Melampydium metabolum Müll. Arg., subsp. **africanum** Zahlbr.

Zahlbruckner (1932) 215.

on branches of **Sideroxylon inerme** Linn., Brenton, Knysna, *v. d. Byl 683*. Type.

Schismatomma paradoxum (Fée) Zahlbr.

Zahlbruckner, Cat. Lich. II : 561.

Platygrapha dirinea Nyl., Stizenberger (1891) No. 1332.

? as *Chiodecton direnium* Nyl. in van der Byl (1931) 8.

Cape, without locality ; ? on trunk of **Erythrina caffra** Thunb., Stella Bush, *v. d. Byl 118* (det. Vain.).

Schismatomma septenarium (Stizenb.) Zahlbr.
Zahlbruckner, Cat. Lich. II : 564.
Platygrapha septenaria Stizenberger (1891) 194, No. 1334.
on sandstone rocks, near Muizenberg, MacOwan, Type ; on Lion's Head, *MacOwan.*

PILOCARPACEAE.

Byssoloma tricholomum (Mont.) Zahlbr.
f. **confluens** Vain., van der Byl (1931) 8, ? nom. nud. (for species see Zahlbruckner, Cat. Lich. II : 569).
Pilocarpon leucoblepharum (Nyl.) Wain. f. *confluens* Vain. in Herb. v. d. Byl.
on **Ocotea bullata** E. Mey, Knysna, *v. d. Byl 260* (det. Vain.).

CHRYSOTHRICACEAE.

Crocynia membranacea (Dicks.) Zahlbr.
Zahlbruckner, Cat. Lich. II : 575.
Leproloma lanuginosum Nyl., Stizenberger (1895) No. 521.
on moss and stones, Mt. Kanduliri, Zambesi region, *Menyharth.*

THELOTREMACEAE.

Gyrostomum scyphuliferum (Ach.) Nyl.
van der Byl (1931) 8 ; Zahlbruckner, Cat. Lich. II : 644,
on trunk of **Pandanus** sp., Durban. v. d. Byl 3, 10 (det. A. L. Sm.) ; on **Croton** sp., Durban, *v. d. Byl 7* (det. A. L. Sm.) ; on tree undet., Stella Bush, *v. d. Byl 70* (det. A. L. Sm.).

Leptotrema endoxanthellum Zahlbr.
Zahlbruckner (1936) 164.
on bark, Knysna, *v. d. Byl 871*, Type.

Leptotrema microglaenoides (Wain.) Zahlbr.
Zahlbruckner, Cat. Lich. II : 637.
Thelotrema microglaenoides Vainio (1926) 32 ; van der Byl (1931) 8 ; Zahlbruckner, Cat. Lich. VIII : 604.
on granite rock, Matopos, *v. d. Byl 157 pr. p., 159* (det. Vain;).

Ocellularia capensis Zahlbr.
Var. **feracior** Zahlbruckner (1932) 217.
on bark, Hoofbos, Knysna, *v. d. Byl 882*, Type.
Var. **leiothallina** Zahlbr.
Zahlbruckner (1932) 217.
on bark, Hoofbos, Knysna, *v. d. Byl 659*, Type.

Ocellularia cavata (Ac.) Müll. Arg.
Zahlbruckner, Cat. Lich. II : 585.
Thelotrema cavatum Ach., von Flotow (1843) 24 ; Krauss (1846) 200.
on bark, Cape, *Krauss.*

Ocellularia diplochistoides Zahlbr.
Zahlbruckner (1932) 216.
on branches of trees, Brenton, Knysna, *v. d. Byl 685*, Type.

Ocellularia galactina Zahlbr.

Zahlbruckner (1932) 216 ; van der Byl (1931) 8.
on bark of trees, Knoetze, Knysna, *v. d. Byl 673*, Type.

Ocellularia henatomma (Ach.) Müll. Arg.

Zahlbruckner, Cat. Lich. II : 592.
Lichen pertusus Thunberg (1823) 176, (1932) 741, not Linn.
Pyrenula henatomma Acharius (1810) 316.
Thelotrema henatomma Acharius (1814) 114 ; Drege (1843) 85 ; Stizenberger (1890) No. 906 ; Juel (1918) 50.
on bark, Cape, *Thunberg ;* Paarlberg, *Drège.*

Thelotrema capense Zahlbr.

Zahlbruckner (1932) 218 ; van der Byl (1931) 8.
on bark of **Cassine croceum** O. Ktze., Hoofbos, Knysna, *v. d. Byl 695, 696*, Type.

Thelotrema diplochistoides Vain.

Vainio (1926) 31 ; van der Byl (1931) 8 ; Zahlbruckner, Cat. Lich. VIII ; 604.
on granite rocks, Matopos, *v. d. Byl 157 pr. p.*, Type.

Thelotrema leioplacoides Nyl.

Nylander (1857) 118, nom. nud. ; Hue (1891) 93 ; Zahlbruckner, Cat. Lich. II : 620.
Cape of Good Hope without locality.

Thelotrema lepadinum Ach.

Drège (1843) 80 ; Stizenberger (1890 & 1895) No. 903 ; J. Müller-Arg. (1893 c) 510 ; Zahlbruckner (1932) 219, Cat. Lich. II : 620.
on branches, under a growth of *Usnea* sp., Pondoland, *Buchmann ;* du Toits Kloof, *Drège ;* on bark, Garden of Eden, Knysna, *v. d. Byl 864 ;* Kaaimansrivier, *v. d. Byl 853.*

Thelotrema muscigenum Stizenb.

Stizenberger (1890) 247, no. 902 ; Zahlbruckner, Cat. Lich. II 626.
on mosses on trees, Table Mt., *MacOwan*, Type.

DIPLOSCHISTACEAE.

Conotrema volvarioides (Fée) Müll. Arg.

Zahlbruckner, Cat. Lich. II 648.
Lecidea volvarioides Stizenberger (1891) 180, no. 1201.
on bark, nr. Lydenburg, *Wilms.*

Diploschistella urceolata Vain.

Vainio (1926) 26 ; van der Byl (1931) 8 ; Zahlbruckner, Cat. Lich. VIII 605.
on rather sandy ground, Stellenbosch, *Eyles* (v. d. Byl 416), Type.

Diploschistes actinostomus (Pers. ex Ach.) Zahlbr.

Zahlbruckner (1932) 220, Cat. Lich. II : 651 ; van der Byl (1931) 8.
Urceolaria actinostoma Pers. ex Ach., Stizenberger (1890) no. 829.
on sandstone rocks, near Lydenburg, *Wilms ;* on quartz rocks, Poole's Bay, *v. d. Byl 797, 801, 802* ; on rocks, near Hermanus, *v. d. Byl 776.*

Var. **aeneus** (Müll. Arg.) Steiner
Zahlbruckner, Cat. Lich. II : 563.
Urceolaria actinostoma var. *aenea* Müll. Arg., Stizenberger (1890) no. 829.
on rocks, Cape, without locality.

Var. **caesioplumbeus** (Nyl.) Steiner
Zahlbruckner (1926 b) 484, Cat.Lich. II : 653.
Urceolaria actinostoma var. *caesioplumbea* Nyl. Stizenberger (1890) no. 829.
on sandstone and granite, Lion's Head and Table Mt., *MacOwan :* slopes of Table Mt. opposite Camps Bay, *Brunnthaler ;* van Reenen's Pass, *Brunnthaler.*

Diploschistes anactinus (Nyl.) Zahlbr.

Zahlbruckner (1932) 220, Cat. Lich. II . 657.
on quartz rocks, Hermanus, *v. d. Byl 779 ;* Botany Bay, *v. d. Byl 991, 995.*

Diploschistes bellus Zahlbr.

Zahlbruckner (1936) 163.
on sandstone rocks, between Calvinia and Middelpos, *v. d. Byl 1107*, Type, and *v. d. Byl 111.*

Diploschistes cinereocaesius (Sw.) Wain.

van der Byl (1931) 8 ; Zahlbruckner, Cat. Lich. II : 660.
Urceolaria cinereocaesius Ach., Stizenberger (1890) no. 838.
on ground amongst mosses, Boschberg, *MacOwan ;* on ground, Howick, *v. d. Byl 213* (det. Vain.).

Diploschistes deuterius (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 662.
Urceolaria deuteria Nyl., Crombie (1876 a) 175 ; Stizenberger (1890) no. 830.
on ground, Table Mt., *Eaton.*

Diploschistes isabellinus Zahlbr.

Zahlbruckner (1932) 219.
on friable sandstone rock, Grey's Pass, Citrusdal, *v. d. Byl 755.*

Diploschistes ochroniger Zahlbr.

Zahlbruckner (1936) 164.
on the ground, Wolseley, *v. d. Byl 1142, 1143*, Type.

Diploschistes perispicillatus Zahlbr.

Zahlbruckner (1932) 219.
on non-calcareous rocks, World's View, van Reenen's Pass, *Brunnthaler*, Type.

Diploschistes scruposus (Schreb.) Norm.
Zahlbruckner, Cat. Lich. II : 665.
f. **iridatus** (Mass.) Zahlbr.
Zahlbruckner (1932) 220, Cat. Lich. II : 670 ; van der Byl (1931) 8.
on ground near Stellenbosch, *v. d. Byl 747.*

Var. **arenarius** (Schaer.) Müll. Arg.
Zahlbruckner (1932) 220, Cat. Lich. II : 671.
Urceolaria scruposa Ach. f. *arenaria* Ach., Stizenberger (1890) no. 832.
Urceolaria scruposa β arenaria Schaer., von Flotow (1843) 24 ; Krauss (1846) 200.
on sandstone rocks, top of Lion's Head, *MacOwan ;* on ground, Grootrivier, Knysna, *v. d. Byl 883 ;* on clayey soil, Tygerberg, *Krauss.*

Diploschistes subcupreus (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 674.
Urceolaria subcuprea Nyl. apud Crombie (1876 a) 175, (1876 b) 20 ; Hue (1891) 99.
on rocks, Table Mt., *Eaton.*

GYALECTACEAE.

Gyalecta Thunbergiana Ach.

Acharius (1810) 152. (1814) 10 ; Juel (1918) 49 ; Zahlbruckner, Cat. Lich. II : 728.
Lichen excavatus Thunberg (1800) 176, (1823) 742, not Hoffmann.
Urceolaria excavata Ach. (1798) 35, (1803) 148.
Lichen opegraphus Gyalecta Thunbergiana* Lamarck (1813) 409.
on clayey ground, Leeuwestaart, *Thunberg.*

Microphiale lutea (Dicks.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 697.
Lecidea lutea Tayl., Stizenberger (1891) no. 913 ; Nylander (1869 a) 8.
? as *Catillaria lutea* Arn., van der Byl (1931) 10.
on bark, Durban, *Armstrong ;* ? on trunk of **Gardenia globosa** Hochst., Winkle Spruit, *v. d. Byl 49* (det. A. L. Sm.)

Pachyphiale cornea Poetsch

Zahlbruckner, Cat. Lich. II : 729.
Lecidea carneola Ach., Drège (1843) 80, 85.
on bark, du Toits Kloof, *Drège ;* Paarlberg, *Drège.*

COENOGONIACEAE.

Coenogonium afrum Massal.

Massalongo (1861) tab. II f.1-4 ; Zahlbruckner, Cat. Lich. II : 736.
Chroolepus afrum Massalongo (1861) 43.
Cape of Good Hope, *Wawra.*

Coenogonium interplexum Nyl.

Stizenberger (1890) no. 910 ; Zahlbruckner, Cat. Lich. II : 737.
on bark of trees, near Baziya, *Baur* (MacOwan 705).

EPHEBACEAE.

Ephebe lanata (Linn.) Wain.

Zahlbruckner, Cat. Lich. II : 750.
Ephebe pubescens (Ach.) Fr., Stizenberger (1890) no. 6.
on wet rocks, top of Lion's Head, *MacOwan.*

PYRENOPSIDACEAE.

Psorotichia cataractae Zahlbr.

Zahlbruckner (1926 b) 485, Cat. Lich. VIII : 269.
on basalt rocks, Palm Kloof, Victoria Falls, *Brunnthaler.*

Psorotichia fuliginella (Nyl.) Wain.

Wainio (1901) 418 ; Zahlbruckner, Cat. Lich. II : 790.
Collema fuliginellum Nylander (1868) 509 ; Hue (1890) 229.
on micaceous-schistose rocks, near Pomangula, Mossamedes, *Welwitsch 57, 58.*

Pyrenopsis Mackenziei, T. A. Jones

apud Nylander (1869 a) 4 ; Stizenberger (1890) no. 5 ; Hue (1890) 226 ; Zahlbruckner, Cat. Lich. II : 771.
on quartzite rocks, Natal, *Armstrong,* Type.

Pyrenopsis robustula Müll. Arg.

J. Müller-Arg. (1893 b) 295 ; Zahlbruckner, Cat. Lich. II : 776.
on rocks, near Boroma, *Menyharth 1215,* Type.

Synalissa austro-africana Zahlbr.

Zahlbruckner (1936) 165.
on sandstone, between Bitterfontein and Garies, *v. d. Byl 1175,* Type.

Peccania minuscula (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. II : 814.
Synalissa minuscula Nylander (1868) 508 ; Forssel (1885) 56 ; Hue (1890) 228 ; Zahlbruckner, Cat. Lich. II : 778.
Omphalaria minuscula (Nyl.) Wainio (1901) 417.
on limestone rocks, on mountain top, Serra de Montes Negros, *Welwitsch 2 pr. p., 15 pr.p.*

COLLEMACEAE.

Arctomia muscicola A. L. Sm.

A. L. Smith (1932) 48 ; Zahlbruckner, Cat. Lich. VIII : 608.
on bark or old wood amongst mosses and *Hymenophyllum,* below Duivel's Kantoor, Kaapsche Hoop, *G. Taylor,* Type.

Collema aggregatum (Ach.) Röhl.

van der Byl (1931) 9, (1935 b) 3 ; Zahlbruckner, Cat. Lich. III : 32.
on trees, Salisbury, *Eyles 4277* (v. d. Byl 574, det. A. L. Sm.) ; Zululand, *R. H. Harris* (v. d. Byl 230, det. Vain.) ; Elim, *Doidge,* 274 ; Highbury, *Doidge,* 1555.

Collema crispum (Linn.) Wigg.

Juel (1818) 49 ; Zahlbruckner, Cat. Lich. III : 72.
Lichen crispus Linn., Thunberg (1800) 177, (1823) 744.
Cape, *Thunberg.*

Collema furvum (Ach.) DC.

J. Müller-Arg. (1893 b) 295 ; Stizenberger (1895) no. 21 ; Schinz (1905) 393 ; Zahlbruckner, Cat. Lich. III : 78.
near Boroma, *Menyharth 250.*

Collema nigrescens (Huds.) DC.

Drège (1843) 80, 85 ; van der Byl (1931) 9, (1935 b) 4 ; Zahlbruckner, Cat. Lich. III : 51.
on trunks of trees, Salisbury, *Eyles 650* (v. d. Byl 556) 1445 ; on bark of **Ficus** sp., Enterprise, *Eyles 1644*, 160 ; on bark, Zululand, *Harris ;* du Toits Kloof, *Drège ;* Paarlberg, *Drège.*

Collema redundans Nyl.

Nylander (1869 a) 5 ; Stizenberger (1890) no. 34 ; Hue (1890) 232 ; van der Byl (1935 b) 4 ; Zahlbruckner, Cat. Lich. III : 46.
Synechoblastus redundans Müll. Arg., J. Müller-Arg. (1880 b) 259.
on bark, Durban, *Armstrong.*

Collema tenax (Sw.) Ach.

Stizenberger (1890) no. 29 ; van der Byl (1935 b) 3 ; Zahlbruckner, Cat. Lich. III : 10.
Collema pulposum Ach. var. *tenax* Nylander (1858) 110 ; Crombie (1876 a) 166.
on the bare ground, Table Mt., *Eaton.*

Collema thysaneum Ach.

Nylander (1869 a), 5 not., ; Stizenberger (1890) no. 38 ; van der Byl (1935 b) 4 ; Zahlbruckner, Cat. Lich. III : 47.
on bark, Cape, *Breutel.*

Leptogium adpressum Nyl.

Stirton (1877) 212 ; Stizenberger (1890) no. 61 ; Wainio (1901) 417 ; van der Byl (1935 b) 8 ; Zahlbruckner, Cat. Lich. III : 126.
on trees, Boschberg, *MacOwan ;* on trunks of living **Parinarium** sp., in high mountain forest, Morro de Lopollo, *Welwitsch 1.*

Leptogium africanum Zahlbr.

Zahlbruckner (1926 b) 488, Cat. Lich. VIII : 287 ; van der Byl (1935 b) 10.
amongst mosses, Winterhoekberg, near Uitenhage, *Zeyher* (in Herb. Naturhist. Hofmus. as *Leptogium Brébissonii*, det. Nylander).

Léptogium Brébissonii Mont.

Zahlbruckner, Cat. Lich. III : 126.
Leptogiopsis Brébissonii Müll. Arg., J. Müller-Arg (1893 b) 295 ; Schinz (1905) 303.
on bark, Boroma, *Menyharth 266, 267.*

Leptogium bullatum (Sw.) Mont.
Zahlbruckner, Cat. Lich. III : 128.
Collema bullatum Ach., Drège (1843) 132, 141.
on bark, Samteesvlakte, near Enon, *Drège ;* " Glenfilling ", *Drège.*

Var. **dactylinoideum** Nyl.
Stirton (1877) 211 ; Stizenberger (1890) no. 60 ; van der Byl (1935 b) 7 ; Zahlbruckner, Cat. Lich. III : 129.
on bark, Boschberg, *MacOwan.*

Leptogium Burgesii (Linn.) Mont.
Steiner (1907) 637 ; Zahlbruckner, Cat. Lich. III : 175.
on bark, Mt. Mamotsuiri, *Junod 981 pr.p.*

Leptogium chloromeloides Nyl.
Nylander (1869 a) 5 ; Hue (1890) 236 ; van der Byl (1935 b) 10 ; Zahlbruckner, Cat. Lich. III : 126.
Leptogiopsis chloromeloides Müll. Arg., J. Müller-Arg. (1882) 292.
on bark, Durban, *Armstrong.*

Leptogium chloromelum (Ach.) Nyl.
Zahlbruckner (1926 b) 487, (1932) 221, Cat. Lich. III : 131 ; van der Byl (1931) 9, (1935 b) 9.
on bark of trees, Table Mt. and Oranjezicht, *Brunnthaler ;* Knysna, *v. d. Byl ;* Umtali, *Eyles 4847 ;* Salisbury, Eyles (v. d. Byl 627).
Var. **caespitosum** (Tayl.) Zahlbr.
Stizenberger (1890) no. 57 ; Zahlbruckner, Cat. Lich. III : 132.
Collema caespitosum Taylor (1847) 196 ; J. Müller-Arg. (1887 a) 269.
in mountain forests, near Uitenhage, *Zeyher.*

Var. **crassius** Nyl.
Nylander (1869 a) 5 ; Hue (1890) 236 ; Stizenberger (1890) no. 57 ; van der Byl (1935 b) 9 ; Zahlbruckner, Cat. Lich. III : 132,
on bark, Durban, *Armstrong.*

Leptogium daedaleum Nyl.
Zahlbruckner, Cat. Lich. III : 134.
Leptogium phyllocarpum Mont. var. *daedaleum* Nylander (1858) 130 ; Stirton (1877) 212 ; van der Byl (1931) 9, (1935 b) 9.
Stephanophoron phyllocarpum var. *daedaleum* Stizenberger (1890) 123, no. 67, (1895) no. 67.
on tree trunks, Boschberg, *MacOwan ;* Transvaal, *Rehmann ;* Knysna, *v. d. Byl 288,* (det. Vain.) ; Table Mt.

Leptogium Hildenbrandii (Garov.) Nyl.
Nylander (1869 a) 5 ; Stirton (1877) 211 ; Stizenberger (1890) no. 55 ; van der Byl (1935 b) 6 ; Zahlbruckner, Cat. Lich. III : 176.
on bark, Natal, *Armstrong, Rehmann ;* Transvaal, *Wilms ;* Boschberg, *MacOwan,* 70, 688

Leptogium Kraussii (Flotow) Zahlbr.
Zahlbruckner, Cat. Lich. III : 136.
Stephanophorus Kraussii Flotow (1843) 29 ; Krauss (1846) 200.
abundant on bark of **Quercus** around Constantia, *Krauss.*

Leptogium marginellum (Sw.) S. F. Gray.

Stizenberger (1890) no. 52 ; van der Byl (1935 b) 6 ; Zahlbruckner, Cat. Lich. III : 143.

Collema marginella Raeuschel, Drège (1843) 155.

Cape, *Gueinzius ;* between " Ontendo " and " Omsamculo ", *Drège.*

Leptogium Menziesii (Sw.) Mont.

Nylander (1858 a) 128 ; Stirton (1877) 211 ; Stizenberger (1890) no. 56 ; van der Byl (1935 b) 7 ; Zahlbruckner, Cat. Lich. III : 177.

on bark and amongst mosses, Cape, *Drège ;* Durban, *Gueinzius ;* Kaffraria, *Baur.*

f. **fuliginosum** Müll. Arg.

Stizenberger (1890) no. 56 ; Steiner (1907) 637 ; (van der Byl 1935 b) 7 ; Zahlbruckner, Cat. Lich. III : 178.

on bark, Cape, *MacOwan ;* Mt. Mamotsuiri, *Junod 981 pr.p.*

Leptogium moluccanum (Pers.) Wain.

Zahlbruckner (1926 b) 487, Cat. Lich. III : 145.

on **Podocarpus** sp., van Reenen's Pass, *Brunnthaler.*

Var. **simplicata** Vain.

van der Byl (1931) 9, (1935 b) 7, ? nom. nud.

on tree trunk, Stella Bush, *v. d. Byl* 108 (det. Vain.)

Leptogium phyllocarpum (Pers.) Mont.

Nylander (1858 a) 130, (1869 a) 5 ; Crombie (1876 a) 166 ; Stirton (1877) 212 ; van der Byl (1935 a) 8 ; Zahlbruckner, Cat. Lich. III : 149.

on trunks of trees, Table Mt., *Eaton ;* Boschberg, *MacOwan ;* Kamberg, *Crass,* 1589 ; Highbury, *Doidge,* 1553 ; Xumeni Forest, *Doidge,* 1622 b ; Kentani, *Pegler 2464,* Durban, *Armstrong ;* on bark of *Ficus* sp., Enterprise, *Eyles 1644 a,* 160 a.

Var. **coralloideum** (Mey. & Flot.) Hue.

van der Byl (1935 a) 9 ; Zahlbruckner, Cat. Lich. III : 149.

Leptogium phyllocarpum var. *isidiosum* Nyl.., Stirton (1877) 212.

Stephanophoron phyllocarpum var. *isidiosum* Stizenberger (1890) 123, no. 67.

on bark, Boschberg, *MacOwan,* 67.

Var. **macrocarpum** Nyl.

Stirton (1877) 212 ; van der Byl (1935 a) 9 ; Zahlbruckner, Cat. Lich. III : 150.

on bark, Boschberg, *MacOwan.*

Leptogium saturninum Nyl.

Zahlbruckner, Cat. Lich. III : 178.

Collema saturninum DC., Drège (1843) 134.

Hoffmanskloof, between Enon and Zuurbergen, *Drège.*

Leptogium tremelloides (Linn. f.) S. F. Gray.

Nylander (1858 a) 124 ; Crombie (1876 a) 166 ; Stirton (1877) 211 ; Stizenberger (1890) no. 49 ; Steiner (1907) 637 ; van der Byl (1931) 9, (1935 a) 10 ; Zahlbruckner, Cat. Lich. III : 155.

Lichen tremelloides Linn. f. (1781) 450 ; Thunberg (1800) 177, (1823) 745.

Collema tremelloides Ach., Drège (1843) 80, 85, 123, 146.

amongst mosses on rocks and on branches and trunks of trees, Table Mt., *Eaton ;* Cape, *Zeyher ;* du Toits Kloof, *Drège ;* Paarlberg, *Drège ;* in a valley in the forest between ' Buffelsrivier ' and ' Key ', *Drège ;* between ' Key ' and ' Basche ', *Drège ;* Kaymans-

gat, *Drège ;* Boschberg, *MacOwan* (S.A.M. 46966) 70,71 ; Blue Lilies Valley, Humansdorp, *Woodcock* (S.A.M. 46929) ; Kentani, *Pegler 1238*, 72 ; Empangeni, *R. H. Harris ;* Highbury, *Doidge*, 1552 ; Nottingham Road, *v. d. Byl 36* (det. A. L. Sm.) ; Mt. Mamotsuiri, *Junod 983 pr.p. ;* Izotsha, *Rump*, 1566 ; Kamberg, *Crass*, 1588 ; Mont aux Sources, *Bottomley*, 738 ; Xumeni Forest, *Doidge*, 1584 ; near Boroma, *Menyharth ;* on **Chaetacme aristata** Planch., Winklespruit, *v. d. Byl 53* (det. A. L. Sm.).

Var. **azureum** Nyl.

Nylander (1858 a) 125 ; Zahlbruckner (1932) 221, Cat. Lich. III : 158.

Leptogium azureum (Sw.) Mont., von Flotow (1843) 20 ; Krauss (1846) 200 ; Stizenberger (1890) no. 51.

on mossy stones in moist places, Boschberg, MacOwan 520 (?S.A.M. 47023) 68, 71 ; on bark and on mossy stones, Woodbush, *Doidge*, 66 (det. Lindau) ; in woods near river, Knysna, *Krauss ;* Hoofbos, Knysna, *v. d. Byl 699 ;* Stellenbosch, *Slabbert ;* Umtali, *Eyles 4294* (v. d. Byl 573, det. A. L. Sm.) ; Stutterheim, *Sr. de Victoria*, 1480 ; Kirstenbosch, *Bottomley*, 779 ; on **Eugenia zulueusis** Dummer, Xumeni Forest, *Morgan & Doidge*, 1695.

Physma byrsinum (Ach.) Müll. Arg.

van der Byl (1935 a) 2 ; Zahlbruckner, Cat. Lich. III : 25.

Dichodium byrsinum Nyl., Stizenberger (1890) no. 41.

Collema byrsinum Ach., Nylander (1869 a) 5.

on bark and mosses, Durban, *Armstrong.*

Physma callicarpum Hue

van der Byl (1935 a) 2 ; Zahlbruckner (1932) 221, Cat. Lich. III : 26.

on trunks of trees, Plettenberg Bay, *v. d. Byl 874.*

HEPPIACEAE.

Heppia azurea Vain.

apud Lynge (1937) 81.

on granite rocks, Matopos, *v. d. Byl 151*, Type.

Heppia Guepini (Del.) Nyl.

Zahlbruckner, Cat. Lich. III : 197.

Endocarpiscum Guepini Nyl., J. Müller-Arg. (1893 b) 296 ; Stizenberger (1895) no. 519 ; Schinz (1905) 394.

on rocks, Mt. Kanduliri, *Menyharth 1, 214.*

Var. **nigrolimbata** Nyl.

Zahlbruckner, Cat. Lich. III : 198.

Heppia nigrolimbata Nyl., van der Byl (1931) 9.

on rocks, Hysberge, *v. d. Byl 372.*

Heppia mossamedana Wain.

Wainio (1901) 417 ; Zahlbruckner, Cat. Lich. III : 192.

on limestone rocks, Serra de Montes Negros, *Welwitsch 483 pr.p.*

PANNARIACEAE.

Coccocarpia pellita (Ach.) Müll. Arg. var. **parmelioides** Müll. Arg.

van der Byl (1931) 9 ; Zahlbruckner, Cat. Lich. III : 287.

on rock, Mayville, *v. d. Byl 72* (det. A. L. Sm.).

Pannaria capensis Steiner

Steiner (1907) 643 ; Zahlbruckner, Cat. Lich. III : 240.
on bark, Mt. Mamotsuiri, *Junod 1000 pr.p.*, Type.

Pannaria Hookeri (Borr.) Nyl. var. **leucolepis** Th. Fr.

Zahlbruckner, Cat. Lich. III : 243.
Pannaria leucolepis Nyl., Stizenberger (1890) no. 497.
on rocks, Table Mt., *MacOwan.*

Pannaria leucosticta Tuckerm. var. **isidiopsis** Nyl.

apud Crombie (1876 a) 171 ; Hue (1891) 39 ; Zahlbruckner, Cat. Lich. III : 245.
Pannularia leucosticta Stizenb. var. *isidiopsis* Nyl., Stizenberger (1890) no. 498.
on bark, Table Mt., *Eaton*, Type.

Pannaria lurida Nyl.

Zahlbruckner, Cat. Lich. III : 245.
Dichodium subluridium Nyl., Stizenberger (1890) no. 42.
on bark, Cape, *Breutel.*

Pannaria rubiginosa (Thunb.) Del.

Crombie (1876 a) 171 ; Steiner (1907) 643 ; Juel (1918) 51 ; van der Byl (1931) 9 ; Zahlbruckner, Cat. Lich. III : 256.
Lichen rubiginosus Thunb. ex Acharius (1798) 99 ; Thunberg (1800) 176, (1823) 743.
Parmelia rubiginosa Ach., Drège (1843) 80, 85.
on bark and mossy stones, Cape, *Thunberg ;* Table Mt., *Eaton ;* Mt. Mamotsuiri, *Junod 1000 pr.p. ;* Caledon, *v. d. Byl 364* (det. Vain.) ; Umtali, *Eyles 4287* (v. d. Byl 570, det. A. L. Sm.) ; du Toits Kloof, *Drège ;* Paarlberg, *Drège.*

Var. **lanuginosa** (Hoffm.) Zahlbr.

Zahlbruckner, Cat. Lich. III : 258.
Pannaria coerulobadia Massalongo (1861) 49.
Pannaria rubiginosa var. *conoplea* Körb., Stizenberger (1890) no. 494.
amongst mosses, Cape, *Wawra, MacOwan.*

Var. **phloeodes** Stizenb.

Stizenberger (1890) 188, no. 494 ; Zahlbruckner, Cat. Lich. III : 260.
Pannaria phleodes Stirton (1877) 215.
on bark of old and dying trees, Boschberg, *MacOwan* (S.A.M. 46976) 81, Type.

Parmeliella coelestina Zahlbr.

Zahlbruckner (1932) 223.
on bark, Hoofbos, Knysna, *v. d. Byl 877*, Type.

Parmeliella corallinoides (Hoffm.) Zahlbr.

Zahlbruckner, Cat. Lich. III : 205.
Biatora triptophylla Fr. *β corrallinoides* Floerke, v. Flotow (1843) 20 ; Krauss (1846) 200.
Pannaria triptophylla (Ach.) Massal, Stizenberger (1890) no. 500.
on bark of tree, Cape, *Gueinzius ;* hills near Green Point, *Krauss.*

Parmeliella plumbea Müll. Arg.

Zahlbruckner, Cat. Lich. III : 20.
Parmelia plumbea Ach., Drège (1843) 132.
on bark, Samteesvlakte, near Enon, *Drège*.

Placynthiopsis africana Zahlbr.

Zahlbruckner (1932) 221.
on quartz rocks, Baakens River Valley, *Brunnthaler*, Type.

Psoroma asperellum Nyl.

Nylander (1863) 24 ; Hue (1891) 44 ; Zahlbruckner, Cat. Lich. III : 266.
Lecanora asperella Nyl., Stizenberger (1890) no. 523.
on bark among mosses, Cape of Good Hope.

Psoroma sphinctrina Nyl.

van der Byl (1931) 9 ; Zahlbruckner, Cat. Lich. III : 275.
Lecanora sphinctrina Nyl., Stizenberger (1890) no. 524.
on bark, Cape of Good Hope ; on trunk of **Quercus** sp., Klapmuts, *v. d. Byl 102* (det. Merrill).

STICTACEAE.

Lobaria interversans Wain.

van der Byl (1931) 9 ; Zahlbruckner, Cat. Lich. III : 302.
on bark, Barberton, *Thorncroft* (v. d. Byl 234, det. Vain.) ; The Wilderness, *v. d. Byl 292* (det. Vain.).

Lobaria isidiosa Wain.

Zahlbruckner (1926 b) 490, Cat. Lich. III : 321.
Lobarina retigera Nyl. f. *isidiosa* Stizenberger (1895) no. 367.
on **Podocarpus** sp., van Reenen's Pass, *Brunnthaler ;* on bark of trees undet., Stutterheim, *Sr. de Victoria*, 1481 ; Fuller's Bush, *T. R. Sim*, 1455 ; Insikeni Forest, *Henkel*, 1466 ; Zwartkop, near Maritzburg, *T. R. Sim*, 1449 ; in bush, Highbury, *Doidge*, 1538 ; Estcourt, *West*, 1629 ; Entabene, *Watson*, 1504 ; near Haenertsburg, *Kapp*, 1761 ; near Tzaneen, *Kapp*, 1762.

Lobaria meridionalis Wain.

van der Byl (1931) 9 ; Zahlbruckner, Cat. Lich. III : 307.
on bark, Knysna, *v. d. Byl 295 pr.p.* (det. Vain.).

Lobaria patinifera (Tayl.) Hue.

Zahlbruckner (1926 b) 490, (1932) 224, Cat. Lich. III : 308 ; van der Byl (1931) 9.
Ricasolia patinifera Müll. Arg., Steiner (1907) 642.
Ricasolia sublaevis Nylander (1869 a) 6 ; Stizenberger (1890) no. 389.
on moss covered tree trunks and on bark, Skeleton Ravine, Table Mt., *Brunnthaler ;* Cape, *Ecklon :* Durban, *Armstrong ;* Transvaal, *Wilms ;* Hoofbos, Knysna, *v. d. Byl 698 pr.p.;* Brenton, Knysna, *v. d. Byl 686 ;* Garden of Eden, Knysna, *v. d. Byl 866 ;* Mt. Mamotsuiri, *Junod 975 pr.p., 980 ;* Xumeni Forest, *Doidge*, 1578, 1582, 1585 ; Highbury, *Doidge*, 1557 a.

Lobaria pulmonaria (Linn.) Hoffm.

van der Byl (1931) 9 ; Zahlbruckner (1932) 242, Cat. Lich. III : 309.
Lichen pulmonarius Linn., Thunberg (1800) 178, (1823) 745.
Sticta pulmonacea Ach., Drège (1843) 80, 125, 144, Nylander (1860 a) 351.
Lobaria pulmonacea (Ach.) Shirley, Stizenberger (1890) no. 369.
on tree trunks, South Africa, without locality, *Gueinzius, Breutel, Rehmann, Maclea, Thunberg ;* du Toits Kloof, *Drège ;* in forest' Koratra ', *Drège ;* in forest in a valley between ' Buffelrivier ' and ' Key ', *Drège ;* Home Rule, Natal, *T. R. Sim*, 1454 ; Pirie Forest, *H. A. Wager*, 761 ; near Brits, *Fouché*, 1471 ; Hoofbos, Knysna, *v. d. Byl 698, pr.p. ;* Devils Peak, *Barnard* (S.A.M. 28822) ; on rock, Caledon, *Purcell* (S.A.M. 46276) ; Kentani, *Pegler 2433* (S.A.M. 46955, 46896).

f. **hypomela** Cromb.

Zahlbruckner, Cat. Lich. III : 315.
Sticta pulmonaria Birola var. *hypomela* (Del.) Duby, Crombie (1876 a) 167.
Lobaria pulmonacea var. *hypomela* Stizenberger (1890) 169, no. 369.
on trunks of trees, Table Mt., *Eaton ;* Transvaal, *Wilms*.

f. **papillaris** (Del.) Hue.

Zahlbruckner (1932) 224, Cat. Lich. III : 316.
on trunks of trees, Kaffraria, Cooper (no. 1814 in Herb. Vindob.) ; Boschberg, *MacOwan* 686.

f. **pleurocarpa** Crombie

Zahlbruckner, Cat. Lich. III : 316.
Lobaria pulmonacea var. *pleurocarpa* Ach., von Flotow (1843) 26 ; Krauss (1846) 201.
on tree trunks, Boschberg, *MacOwan*, 150 ; on old trees, slopes of Table Mt., *Krauss*.

Lobaria quercizans (Ach.) Michx.

Zahlbruckner (1932) 224, Cat. Lich. III : 317.
Sticta quercizans Ach., Drège (1843) 134, 144 ; Crombie (1876 a) 167.
Ricasolia crenulata Nyl. var. *stenospora* Nylander (1860 a) 373.
Ricasolia erosa Nylander (1860 a) 371 ; Stizenberger (1890) no. 388.
Ricasolia Ravenelii Nyl., Stirton (1877) 212.
Stictina quercizans (Ach.) Stizenberger (1890) no. 358.
on tree trunks and mossy rocks, in forest in a valley between ' Buffelrivier ' and ' Key ', *Drège ;* Hoffmans Kloof, between Enon and Zuureberge, *Drège ;* Table Mt., *Eaton ;* Cape and northern Natal, *Rehmann ;* Transvaal, *McLea, Rehmann ;* Buccleuch, *J. M. Sim*, 1447 ; Champagne Castle, *Bayer*, 1740 ; Highbury, *Doidge*, 1557 ; Xumeni Forest, *Doidge*, 1578 ; Knysna, *v. d. Byl 878. 879, 892 c, 896 ;* Grootrivier, *v. d. Byl 845, 846 ;* Storms River, *v. d. Byl 875 ;* Boschberg, *MacOwan* (S.A.M. 46895) 141 ; Blue Lilies Bush, Humansdorp, *Woodcock* (S.A.M. 46927).

Lobaria retigera (Bory) Trevis.

Zahlbruckner, Cat. Lich. III : 321.
Sticta retigera Ach., Nylander (1860 a) 351.
Lobarina retigera Nyl., Stizenberger (1890) no. 367.
on mossy tree trunks, South Africa, *Rehmann ;* ? Boschberg, *MacOwan* (S.A.M. 46983).

Lobaria verrucosa (Scop.) Hoffm.

Zahlbruckner, Cat. Lich. III ; 322.
Lobarina scrobiculata Nyl., Stizenberger (1890) no. 366.
on trunks and mossy stones, near Kooksbosch, *Breutel, Zeyher*.

Sticta ambavillaria Ach.

Nylander (1860 a) 346 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. III : 369.
on bark, Cape, *Drège ;* Boschberg, *MacOwan* (S.A.M. 46981) ; Keurboomsrivier, *v. d. Byl 286* (det. Vain.).

Sticta argyracea (Bory) Del.

Zahlbruckner, Cat. Lich. III : 370.
Stictina argyracea Nylander (1860 a) 334 ; Stizenberger (1890) no. 348.
on bark, Cape.

f. **rigidula** Zahlbr.

Zahlbruckner, Cat. Lich. III : 371.
Stictina argyracea var. *rigidula* Nylander (1869 a) 6 ; Stizenberger (1890) no. 348.
on bark, Durban, *Armstrong.*

Var. **aspera** Krempelh.

Zahlbruckner, Cat. Lich. III : 371.
Sticta aspera Laur., Drège (1843) 144.
on bark, in forest in a valley between ' Buffelrivier ' and ' Key ', *Drège.*

Var. **flavescens** Zahlbr.

Zahlbruckner, Cat. Lich. III : 372.
Stictina argyracea var. *flavescens* Nyl., Stizenberger (1890) no. 348.
on bark, Cape, *Wilms.*

Sticta aurata (J. E. Sm. & Sow.) Ach.

Drège (1843) 124, 125, 134, 144 ; von Flotow (1843) 27 ; Krauss (1846) 201 ; Nylander (1860 a) 361, (1869 a) 6 ; Crombie (1876 a) 167 ; Stizenberger (1890, 1895) no. 379 ; J. Müller-Arg. (1893 a) 509 ; van der Byl (1931) 9 ; Zahlbruckner (1926 b) 492, Cat. Lich. III : 330, VIII : 606.
Stictina aurata Ach., Steiner (1907) 643.
Pseudocyphellaria aurata Wain., Gyelnik (1931 d) 295.
on **Portulacaria afra** Jacq., Despatch, *Brunnthaler ;* on bark of **Acacia** and **Gymnosporia,** Swellendam, *Krauss ;* on mossy rocks and on trunks of trees undet., in forest ' Koratra ', *Drège ;* in forest in valley between ' Bufelrivier ' and ' Key ', *Drège ;* between ' Omtata ' and ' Omsamwubo ', *Drège ;* Hoffmans Kloof, between Enon and Zuureberge, *Drège ;* ' Hoogekraalsrivier ', *Drège ;* Durban, *Armstrong ;* Table Mt., *Eaton ;* Transvaal, *Wilms ;* Pondoland, *Bachmann ;* Barberton, *v. d. Byl 235* (Det. Vain.) ; Knysna, *Hean,* (v. d. Byl 293, det. Vain.), *Duthie* (v. d. Byl 417), *Pienaar,* 109 ; Stutterheim, *Sr. de Victoria,* 1484 ; Entabene, *Watson,* 1376 ; without locality, *T. R. Sim,* 1458 ; Mt. Mamotsuiri, *Junod 977 ;* Umtali, *Eyles 4239* (v. d. Byl 567, det. A. L. Sm.) ; Nongoma, *Gerstner,* 1592 ; Kidds Beach, *Schaefer,* 1747 ; Blue Lilies Bush, Humansdorp, *Woodcock* (S.A.M. 46928) ; Kentani, *Pegler* (S.A.M. 46897) ; Garcia's Pass, *Thorne* (S.A.M. 38829).

Var. **pallens** Nyl.

Stirton (1877) 212 ; Zahlbruckner, Cat. Lich. III : 333.
on bark, Boschberg, *MacOwan* (S.A.M. 46985).

Sticta carpoloma Del. var. **albocyphellata** Nyl.

Zahlbruckner, Cat. Lich. III : 374.
Stictina carpoloma var. *albocyphellata* Nylander (1869 a) 6.
on bark, Durban, *Armstrong.*

Sticta clathrata (Trevis.) deNot.

Zahlbruckner, Cat. Lich. III : 336.

on dead branches in bush, Highbury, *Doidge*, 1557 b.

Var. subhirsuta.

van der Byl (1931) 10, ? nom. nud.

on tree trunks, Woodbush, *v. d. Byl 532* (det. Vain.).

Sticta crocata (Linn.) Ach.

Acharius (1803) 277, (1810) 447, (1814) 232 ; Drège (1843) 80, 84, 88, 105, 114 ; Massalongo (1861) 49 ; Crombie (1876 a) 167 ; Juel (1918) 49 ; Zahlbruckner (1926 b) 491, Cat. Lich. III : 376, VIII ; 606.

Lichen crocatus Linn., Thunberg (1800) 178, (1823) 747.

Stictina crocata Nylander (1860 a) 338 ; Stizenberger (1890) no. 353.

Cyanisticta crocata Gyelnik (1931 a) 7, (1931 d) 295.

on bark of trees, Table Mt., and Devils Peak, at foot of mountains, *Drège ;* Table Mt., *Eaton ;* Devils Peak, *Ecklon 25* (S.A.M. 46862) ; in krantzes, Table Mt., *Drège ;* on trunks, Skeleton Ravine, Table Mt., *Brunnthaler ;* ' Gnadenthal ', *Drège ;* du Toits Kloof, *Drège ;* Simonsberg, *Drège ;* Cape, without locality, *Thunberg, Wawra ;* Transvaal, *Rehmann ;* Inanda, *Medley Wood 501*, 151 ; Nottingham Road, *v. d. Byl 37* (det. A. L. Sm.) ; Kentani, *Pegler* (S.A.M. 46956).

Var. isidalia Gyeln.

Zahlbruckner, Cat. Lich. VIII : 309.

Cyanisticta crocata var. *isidialia* Gyelnik (1931 a) 7.

Pseudocyphellaria crocata (L.) Wain., var. *isidialia* Gyeln.. Magnusson (1940) 15.

on bark, South Africa, without locality, *Drège* (sub *Sticta crocata* var. *gilva* in Herb. Mus. nat. Hist. Wien, pr.p.).

Sticta damaecornis (Sw.) Ach.

Nylander (1860 a) 356 ; Stirton (1877) 212 ; Stizenberger (1890) no. 370 ; Zahlbruckner (1926 a) 183, Cat. Lich. III : 337.

on bark, Cape of Good Hope ; near Kimberley, *Shaw.*

Sticta endochrysea Del.

von Flotow (1843) 26 ; Krauss (1846) 201 ; Stizenberger (1890 & 1895) no. 377 ; Zahlbruckner, Cat. Lich. III : 342.

? near Lydenburg, *Wilms ;* ? on old trees, slopes of Table Mt., *Krauss.*

Doubtful record.

Sticta fuliginosa (Dicks.) Ach.

Zahlbruckner (1926 b) 491, (1932) 225, Cat. Lich. III : 383, VIII : 310, 606 ; van der Byl (1931) 10.

Stictina fuliginosa Nyl., Stirton (1877) 212 ; Stizenberger (1890) no. 363 ; Gyelnik (1931 d) 294.

on bark and mossy stones, Van Reenens Pass, *Brunnthaler ;* Knysna, *Duthie* (v. d. Byl 406, 418) ; near Knysna, *v. d. Byl 817 ;* Woodbush, *v. d. Byl 534* (det. Vain.) ; Umtali, *Eyles 4273* (v. d. Byl 566, det. A. L. Sm.) ; Pirie Forest, *Doidge*. 223 ; near Haenertsburg, *Kapp*, 1767 ; Boschberg, *MacOwan* (S.A.M. 46982).

Sticta gilva Ach.

Acharius (1803) 278, (1810) 448 ; Crombie (1876 a) 167 ; Stizenberger (1890 & 1895) no. 354 ; Juel (1918) 50 ; Zahlbruckner (1926 b) 491, (1932) 224, Cat. Lich. III : 386, VIII : 310, 606 ; van der Byl (1931) 10.

Lichen gilvus Acharius (1798) 157 ; Thunberg (1800) 178, (1823) 746.
Sticta crocata var. *gilva* Acharius (1814) 238.
Sticta Ecklonii Sprengel (1827) 330.
Stictina gilva (Ach.) Nylander (1860 a) 339 ; Stizenberger (1890) no. 354 ; J. Müller-Arg. (1893 a) 509.
Cyanisticta gilva Gyelnik (1931 a) 5, (1931 d) 295.
Pseudocyphellaria gilva (Ach.) Malme, Magnusson (1940) 33.
on bark and on mossy stones, Cape, *Thunberg ;* Table Mt., *Ecklon 323, Marloth 102, 104, Eaton, Wilms, Wawra ;* Cape, *Wahlberg, Zeyher ;* Durban, *Gueinzius 6, 10 ;* Pondoland, *Bachmann ;* Skeleton Ravine, Table Mt., *Brunnthaler ;* Stellenbosch, *Hofmeyr* (v. d. Byl 445, det. Vain.) ; Devils Peak, on rocks, *Pappe 26* (S.A.M. 46863), *Gueinzius ;* Table Mt., *Dippenaar & du Plessis.*

Var. **angustilobata** Gyeln.

Zahlbruckner, Cat. Lich. VIII : 310.
Cyanisticta gilva var. *angustilobata* Gyelnik (1931 a) 5.
Cape, *Feé* (sub *Sticta gilva* in Herb. Mus. Berlin Dahlem).

Var. **lanata** Gyeln.

Zahlbruckner, Cat. Lich. VIII : 311.
Cyanisticta gilva var. *lanata* Gyelnik (1931 a) 5.
Collema lanatum Pers., Zahlbruckner, Cat. Lich. III : 386.
South Africa, *Drège* (Berlin-Dahlem) ; Cape, without locality (Berlin-Dahlem) ; Cape, *Gueinzius* (Berlin-Dahlem).

Var. **pseudogilva** Gyeln.

Zahlbruckner, Cat. Lich. VIII : 311.
Cyanisticta gilva var. *pseudogilva* Gyelnik (1931 a) 5.
Cape, *Gueinzius* (sub *Sticta gilva* in Herb. Mus. Berlin-Dahlem).

Sticta Hornemanni Fr.

Fries (1820) 43 ; Zahlbruckner, Cat. Lich. III : 349.
Cape of Good Hope : " Exactius non cognita a recentioribus neglecta " Zahlbr. l.c.

Sticta intricata (Nyl.) Del.

Zahlbruckner, Cat. Lich. III : 389.
Stictina intricata Nylander (1860 a) 334, (1869 a) 6 ; Hue (1890) 295 ; Stizenberger (1890) no. 349 ; Steiner (1907) 643.
on trunks of trees, Mt. Mamotsuiri, *Junod 984 pr.p. ;* Durban, *Armstrong ;* Inanda, *Medley Wood 501,* 151 a.

Var. **Hesseana** Zahlbr.

Zahlbruckner, Cat. Lich. III : 390.
Stictina Hesseana Krempelh., Stizenberger (1890) no. 350.
on bark, Cape of Good Hope, *Hesse.*

Sticta limbata Ach.

Zahlbruckner, Cat. Lich. III : 391, VIII : 311, 606.
Stictina limbata Nyl., Stizenberger (1890) no. 361 ; Gyelnik (1931 a) 3, (1931 d) 294.
on mossy trunks, Natal, *Rehmann ;* Transvaal, *Wilms.*

Sticta Mougeotiana (Nyl.) Del.

von Flotow (1843) 26 ; Krauss (1846) 201 ; Zahlbruckner, Cat. Lich. III : 395.
Sticta erythroscypha Taylor (1847) 181.
Cape, *Zeyher ;* Inanda, *Medley Wood 501*, 151 ; on old trees, slopes of Table Mt., *Krauss.*

Var. **aurigera** Nyl.

Zahlbruckner, Cat. Lich. III : 396.
Stictina Mougeotiana var. *aurigera* Nyl., J. Müller-Arg. (1893 a) 509 ; Stizenberger (1895) no. 356.
on tree trunks, Pondoland, *Bachmann.*

Sticta subcrocata Gyeln.

Zahlbruckner, Cat. Lich. VIII : 312.
Cyanistica subcrocata Gyelnik (1931 a) 7.
South Africa *Drège* (sub *Sticta crocata* var. *gilva* pr. p., Wien.).

Sticta sylvatica Ach.

Drège (1843) 144 ; Zahlbruckner, Cat. Lich. III : 399, VIII : 606.
Stictina sylvatica Nyl., Stizenberger (1890) no. 363 ; Gyelnik (1931 d) 295.
on tree trunks and branches, Table Mt., *Rehmann ;* Pirie Forest, *Doidge*, 223; in forest, in a valley between ' Buffelrivier ' and ' Key ', *Drège.*

Sticta Thouarsii Del.

Zahlbruckner, Cat. Lich. VIII : 607.
Stictina intricata var. *Thouarsii* Nylander (1869 a) 6 ; Stizenberger (1890) no. 349.
Cyanisticta Thouarsii Gyelnik (1931 d) 298.
on bark, Durban, *Armstrong.*

Sticta tomentosa (Sw.) Ach.

Acharius (1803) 279, (1810) 450, (1814) 234 ; Drège (1843) 125 ; Juel (1918) 51 ; Zahlbruckner, Cat. Lich. III : 403.
Lichen tomentosus Sw., Thunberg (1800) 178, (1823) 746.
Stictina tomentosa Nylander (1869 a) 6 ; Stizenberger (1890) no. 352.
on bark, Cape, *Thunberg ;* Durban, *Armstrong ;* in forest, ' Koratra ', *Drège.*

Sticta variabilis (Bory) Ach.

Nylander (1869 a) 6 ; Stizenberger, (1890) no. 376 ; Zahlbruckner, Cat. Lich. III : 366, VIII : 313.
on bark, Durban, *Armstrong.*

Sticta Weigelii Ach.

Zahlbruckner (1932) 224, Cat. Lich. III : 404 ; van der Byl (1931) 10.
Stictina quercizans Nyl., Stizenberger (1890) no. 358.
on bark, Orange Free State, *Cooper 1046 pr.p. ;* Nottingham Road, *v. d. Byl 35* (det. A. L. Sm.) ; Woodbush, *v. d. Byl 533* (det. Vain.) ; near Tzaneen, *Kapp*, 1762 a.

Var. sublimbata Steiner

Steiner (1907) 642 ; Zahlbruckner, Cat. Lich. III : 406.
on bark, Mt. Mamotsuiri, *Junod 981 pr.p., 983 ;* on rocks in streams, Champagne Castle, *Bayer*, 1740.

Nephroma africanum Gyeln.

Gyelnik (1931 c) 135.
South Africa, without locality, *Drège.*

Nephroma capense Massal.

Massalongo (1861) 85 ; Zahlbruckner (1926 c) Pl. 5, f. 1-4, Cat. Lich. III : 442.
on ground and on trunks of trees, Cape, without locality (ex Herb. Hampe).

Nephroma cellulosum Ach.

Drège (1843) 85 ; Zahlbruckner, Cat. Lich. III : 427.
on bark, Paarlberg, *Drège.*

Nephroma flavireagens Gyeln.

Gyelnik (1931 c) 135.
Cape, without locality, *Gueinzius.*

Nephroma laevigatum Ach.

Zahlbruckner, Cat. Lich. III : 427.
Nephromium laevigatum Nylander (1860 a) 320.
on trunks of trees and on mossy rocks, Cape of Good Hope ; Boschberg, *MacOwan*, (S.A.M. 46965).

Nephroma resupinatum Ach. f. **helveticum** Rabenh.

Zahlbruckner, Cat. Lich. III : 439.
Nephroma helveticum Ach., Drège (1843) 80.
Nephromium helveticum Nyl., Stizenberger (1890) no. 392.
on trunks of trees and on mossy rocks, South Africa, *Gueinzius, Breutel, Rehmann ;* du Toits Kloof, *Drège ;* Boschberg, *MacOwan* (S.A.M. 46967).

Nephroma tropicum (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. III : 442.
Nephromium tropicum Müll.-Arg., J. Müller-Arg. (1883) 21, (1894) 250.
Stictina membranacea Müll. Arg., J. Müller-Arg. (1893 a) 514 ; Stizenberger (1895) no. 348*bis*.
on mossy tree trunks, Baziya, *Baur 715*, Kew.

Peltigera canina (Linn.) Willd.

Crombie (1876 a) 170 ; Stizenberger (1890) no. 396 ; Zahlbruckner, Cat. Lich. III : 457.
amongst mosses on ground and on tree trunks, South Africa ; on trees, Table Mt., *Eaton.*

f. **leucorrhiza** Floerke

Zahlbruckner, Cat. Lich. III : 462.
on ground and on rocks in bush, Lundie's Hill, *Morgan & Doidge.*

f. **membranacea** Duby

Zahlbruckner, Cat. Lich. III : 463.
Peltigera membranacea (Ach.) Nyl., Stizenberger (1890) no. 397.
Boschberg, *MacOwan ;* Natal, *Rehmann ;* Transvaal, *Maclea, Wilms.*

Peltigera malàcea (Ach.) Funck.

Massalongo (1861) 49 ; Stizenberger (1890) no. 395 ; Zahlbruckner, Cat. Lich. III : 472

? on ground, Cape, *Wawra*.

Peltigera polydactyla (Neck.) Hoffm.

Nylander (1860 a) 326 ; Stizenberger (1890) no. 402 ; Zahlbruckner, Cat. Lich. III : 475.

amongst mosses on ground around tree trunks, Africa, extending to Cape of Good Hope.

f. **hymenina** (Ach.) Flotow.

Stizenberger (1890) no. 402 ; Zahlbruckner, Cat. Lich. III : 479.

on ground amongst mosses, near Kooksbosch, *Breutel*.

Solorina sorediifera Nyl.

Nylander (1860 a) 331 ; Hue (1890) 312 ; Zahlbruckner, Cat. Lich. III : 420.

Solorinina sorediifera (Nyl.) Stizenberger (1890) no. 407.

Cape of Good Hope.

LECIDEACEAE.

Bacidia aemula (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 168.

Lecidea aemula Stizenberger (1891) no. 991.

on bark, Boschberg, *MacOwan* (Zwackh. Lich. exsic. 822).

Bacidia amylothelia Vain.

Vainio (1926) 18 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII : 397.

Bacidia laurocerasi Wain. var. *amylothelia* (Wain.) Zahlbruckner, Cat. Lich. IV : 124.

Lecidea laurocerasi Nyl. var. *amylothelia* Wainio (1901) 420.

on bark of tree, Onrust, *v. d. Byl 328* (det. Vain.) ; also in tropical Angola.

Bacidia Beckhausii (Stizenb.) Körb.

Zahlbruckner, Cat. Lich. IV : 180.

Bacidia bacillifera Branth. & Rostr., van der Byl (1931) 10.

on trunk of **Quercus** sp., v. d. Byl 86 (det. Merrill).

Var. **stenospora** Arn. f. **acutata** Zahlbr.

Zahlbruckner, Cat. Lich. IV : 182.

Lecidea stenospora (Hepp.) Nyl. var. *acutata* Stizenberger (1891) 145, no. 1009.

on branches in bush, Karkloof, *Rehmann*.

Bacidia capreolina (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 184.

Lecidea capreolina Stizenberger (1891) 143, no. 994.

on branches of trees, Spitzkop, near Lydenburg, *Wilms*.

Bacidia caruncula (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 104.

Lecidea caruncula Stizenberger (1891) 141, no. 979.

on branches in bush, Karkloof, *Rehmann*.

Bacidia chlorophaeata (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 185.
Lecidea chlorophaeata Nyl. apud Crombie (1876 a) 176, (1876 b) 20 ; Stizenberger (1891) no. 1002 ; Hue (1891) 122.
on rocks, Table Mt., *Eaton.*

Bacidia cyrtocheila (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 109.
Lecidea cyrtocheila Stizenberger (1891) 140, no. 975.
on bark of trees, Boschberg, *MacOwan* (Herb. Lojka) Type.

Bacidia effusa (J. E. Sm.) Trevis. var. **intermedia** Zahlbr.

Zahlbruckner, Cat. Lich. IV : 191.
Lecidea intermedia Nyl., Stizenberger (1891) no. 998.
on bark, Boschberg, *MacOwan.*

Bacidia endoleuca (Nyl.) Kickx.

Zahlbruckner (1932) 237, Cat. Lich. IV : 192 ; van der Byl (1931) 10.
Lecidea endoleuca Nylander (1869 a) 11 ; Stizenberger (1891) no. 984.
on bark, Durban, *Armstrong ;* Boschberg, *MacOwan 1072 ;* near Lydenburg, *Wilms ;* on bark of **Cassine croceum** P. Ktze., Hoofbos, Knysna, *v. d. Byl 697, 904, 909 ;* on branches of **Canthium** sp., Brenton, Knysna, *v. d. Byl 668 ;* on **Populus** sp., Zwart Brug, George, *v. d. Byl 930.*

Bacidia endoleucella (Stizenb.) Zahlbr.

Zahlbruckner (1932) 237, Cat. Lich. IV : 193.
Lecidea endoleucella Stizenberger (1891) 142, no. 988.
on bark, Cape, *MacOwan* (Herb. Lojka) Type ; on branches of **Rapanea melanophleos** Mez., The Heads, Knysna, *v. d. Byl 675.*

Bacidea epicyanea Vain.

Vainio (1926) 17 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII : 401.
on bark of **Curtisia faginea** Ait., near Knysna, *v. d. Byl 259*, Type.

Bacidia Friesiana (Hepp.) Anzi var. **Norrlinii** Vain.

Zahlbruckner, Cat. Lich. IV : 199.
Lecidea Norrlinii Lamy, Stizenberger (1891) no. 1000.
on bark, Durban, *Wilms.*

Bacidia fuscorubella (Hoffm.) Bausch

Zahlbruckner (1932) 240, Cat. Lich. IV : 200.
Lecidea fuscorubella (Hoffm.) Röhl., Stizenberger (1891) no. 993.
on bark of a pomiferous tree, near Lydenburg, *Wilms ;* on bark, Hoofbos, Knysna, *v. d. Byl 890 ;* on bark of **Fagara capensis** Thunb., Winkle Spruit, *v. d. Byl 54* (det. A. L. Sm.).

Bacidia heteroloma (Wain.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 204.
f. **firmior** Vain., van der Byl (1931) 10, ? nom. nud.
on bark, Hopefield, *v. d. Byl 148* (det. Vain.).

Bacidia inconsequens (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 115.
Lecidea inconsequens Nylander (1869 a) 10 ; Hue (1891) 106 ; Stizenberger (1891) no. 980.
on bark, Durban, *Armstrong*, Type.

Bacidia inconveniens (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 208.
Lecidea inconveniens Nylander (1869 a) 11 ; Stizenberger (1891) no. 1006.
on bark, Durban, *Armstrong*, Type.

Bacidia intermedia Hampe

apud Massalongo (1861) 89 ; Zahlbruckner, Cat. Lich. IV : 252.
on bark, Cape of Good Hope.

Bacidia leucostephana (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 214.
Lecidea leucostephana Stizenberger (1891) 142, no. 987.
on bark, Boschberg, *MacOwan 516*, 52, Type.

Bacidia lugubris (Norm.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 163.
Lecidea caudata Nyl., Stizenberger (1891) no. 1110.
Rhopalospora caffra Massalongo (1861) 73.
on sandstone rocks, Cape, *Wawra*.

Bacidia luteola (Schrad.) Mudd

Zahlbruckner, Cat. Lich. IV : 215.
Lecidea luteola Ach., Stirton (1877) 218 ; Stizenberger (1891) no. 981.
on bark, Durban, *Medley Wood* (MacOwan 204) Boschberg, *MacOwan 510*, 53.

f. **chlorotica** Zahlbr.

Zahlbruckner, Cat. Lich. IV : 218.
? *Lecidea chlorotica* (Ach.) Nyl., Stizenberger (1891) no. 999.
Lecidea luteola var. *chloroticà* Ach., Stirton (1877) 218.
on trunks of trees, Boschberg, *MacOwan 513*, 54.

f. **conspondens** Zahlbr.

Zahlbruckner, Cat. Lich. VI : 219.
Lecidea luteola f. *conspondens* Nyl., Stirton (1877) 218.
on trunks of trees, Boschberg, *MacOwan*.

Bacidia medialis (Tuckerm.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 221.
Lecidea medialis Tuckerm., Stizenberger (1891) no. 1003.
on bark, Boschberg, *MacOwan 510*, 56.

Bacidia millegrana (Tayl.) Zahlbr.

Zahlbruckner (1932) 237, Cat. Lich. IV : 222.
Lecidea millegrana Nylander (1869 a) 11 ; Stirton (1877) 218 ; Stizenberger (1891) no. 983.
on bark, Durban, *Armstrong ;* Boschberg, *MacOwan 510*, 56 ; Hoofbos, Knysna, *v. d. Byl 893*.

Bacidia proposita (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 234.
Lecidea proposita Nyl., Stirton (1877) 219 ; Stizenberger (1891) no. 991.
on rocks, South Africa.

Bacidia rufata (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 239.
Lecidea rufata Stizenberger (1891) 144, no. 995.
on bark of tree of the family Malvaceae, near Durban, *Wilms*, Type.

? **Bacidia sabuletorum** Lettau

Zahlbruckner, Cat. Lich. IV : 140.
Lecidea sabuletorum (? author) Drège (1843) 52.
on ground, Witberg, *Drège*.

Bacidia stupposa (Massal.) Zahlbr.

Zahlbruckner (1905) 135, Cat. Lich. IV : 241.
Byssospora stupposa Massalongo (1861) 89.
on trunks of trees, Cape of Good Hope, *Drège* (Herb. Hampe).

Bacidia subluteola (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 243.
Lecidea subluteola Nyl., Stirton (1877) 219.
on bark, South Africa, without locality.

Bacidia subpadicea (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 244.
Lecidea subspadicea Stizenberger (1891) 145, no. 1008.
on bark, near Lydenburg, *Wilms*.

Bacidia trifaria (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 246.
Lecidea trifaria Stizenberger (1891) 142, no. 985.
on bark of trees in bush, near Karkloof, *Rehmann*, Type.

Catillaria chalybeia (Borr.) Massal.

Zahlbruckner, Cat. Lich. IV : 13.
Lecidea chalybeia Borr., Crombie (1876 a) 178 ; Stizenberger (1891) no. 1193.
on rocks, Table Mt., *Eaton ;* Lions Head, *MacOwan*.

Catillaria Finckei Zahlbr.

Zahlbruckner (1921) 238, (1926 b) 494, Cat. Lich. IV : 17, VIII : 389.
on sandstone, Windhoek, *Fincke*, Type.

Catillaria intermixta (Nyl.) Arn.

Zahlbruckner (1932) 237, Cat. Lich. IV : 47.
on bark, Garden of Eden, Knysna, *v. d. Byl 865 ;* Grootrivier, *v. d. Byl 834.*

f. **cyanocentra** Zahlbr.

Zahlbruckner, Cat. Lich. IV : 48.
Lecidea intermixta f. *cyanocentra* Nylander (1869 a) 48.
on bark, Durban, *Armstrong.*

Catillaria lenticularis (Ach.) Th. Fr.

Zahlbruckner (1932) 237, Cat. Lich. IV : 49 ; van der Byl (1931) 10.
on schistose rocks, Hermanus, *v. d. Byl 780 ;* on rocks, Glencairn, *v. d. Byl 1003.*

f. **chloropoliza** Boist.

Zahlbruckner, Cat. Lich. IV : 52.
Lecidea chloropoliza Nyl., Stizenberger (1891) no. 1199.
on rocks, Table Mt., *Eaton.*

Catillaria melampepla (Tuckerm.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 21.
Lecidea melampepla Tuckerman (1860) 419 ; Stizenberger (1891) no. 969.
Biatora melampepla Tuckerman (1888) 157.
on bark of shrubs, Simonstown, *Wright,* Type.

Catillaria mollescens Zahlbr.

Zahlbruckner (1936) 169.
on bark of **Acacia melanoxylon** R. Br., Knysna, *v. d. Byl 919,* Type.

Catillaria mortualis (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 21.
Lecidea mortualis Stizenberger (1891) 180, no. 1198.
on rocks, Table Mt., *MacOwan,* Type.

Catillaria nigroclavata (Nyl.) Schuler

Zahlbruckner, Cat. Lich. IV : 60.
Lecidea lenticularia var. *nigroclavata* (Nyl.) Stizenberger (1891) no. 1192.
on bark of **Pinus** sp., Table Mt., *MacOwan.*

Catillaria opacata (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 63.
Lecidea opacata Stizenberger (1891) 179, no. 1196.
on sandstone rocks, Cape, *MacOwan,* Type.

Catillaria rhyparoleuca Massal.

Massalongo (1861) 70 as *C. ryparolemca* ; Zahlbruckner, Cat. Lich. IV : 68.
Lecidea rhypharoleuca Stizenberger (1891) 179, no. 1197
on quartzite rocks, Devil's Peak, *Wawra,* Type.

Catillaria stictella (Stirt.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 73.
Lecidea stictella Stirton (1877) 218.
on bark, Cape, *MacOwan*, Type.

Catillaria subfuscata (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 73.
Lecidea subfuscata Nylander (1859) 243 ; Hue (1891) 111 ; Stizenberger (1891) no. 964.
Cape, without locality.

Lecidea achristella Vain.

apud Lynge (1937) 84.
on bark of **Acacia mollissima** Willd., Howick, *v. d. Byl 198*, Type.

Lecidea aeneola (Arn.) Wain. var. **fuscoatrata** (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. III : 501.
Lecidea fuscoatrata Nyl., Stizenberger (1891) no. 1108.
on sandstone rocks, summit of Lion's Head and Table Mt., *MacOwan*.

Lecidea affine Merrill.

van der Byl (1931) 11, ? nom. nud.
on stone, Klapmuts, *v. d. Byl* (det. Merrill.)

Lecidea albocoerulescens (Wulf) Ach.

Stizenberger (1891) no. 1080 ; Zahlbruckner, Cat. Lich. III : 504.
on rocks, Lion's Head, *MacOwan*.

Var. **flavocoerulescens** (Hornem.) Schaer.
Stizenberger (1891) no. 1080.
on rocks, Hottentot's Holland Mts., *MacOwan*.

Lecidea angolensis Müll. Arg.

J. Müller-Arg. (1880 a) 35 ; Stizenberger (1891) 158, no. 1093 ; Schultze (1907) 706 ; Zahlbruckner (1926 b) 492, Cat. Lich. III : 513.
on rocks, Lydenburg, *Wilms ;* Lebombo Mts., *Wilms ;* Boschberg, *MacOwan ;* Kooa, Kalahari, *Schultze 51 b ;* on sandstone, Genadendal, near Caledon, *Brunnthaler*.

Lecidea anteposita Nyl.

Nylander (1869 a) 9 ; Hue (1891) 107 ; Stizenberger (1891) no. 932 ; Zahlbruckner, Cat. Lich. III : 733.
on bark, Durban, *Armstrong*, Type.

Lecidea aporetica Stizenb.

Stizenberger (1891) 138, no. 957 ; Zahlbruckner, Cat. Lich. III : 734.
on trunks of trees, Boschberg, *MacOwan*, Type.

Lecidea Bruguierae Vain.

Vainio (1926) 19 ; Zahlbruckner, Cat. Lich. VIII : 367.
on bark of **Bruguiera gymnorhiza** Lam., near Durban, *v. d. Byl 140*, Type.

Lecidea buxea Stizenb.

Stizenberger (1891) 155, no. 1077 ; Zahlbruckner, Cat. Lich. III : 530.
on rocks, " Duivels Knokler ", near Lydenburg, *Wilms*, Type.

Lecidea caledonica Zahlbr.

Zahlbruckner (1932) 228.
on sandstone rocks, Genadendal Mt., *Brunnthaler*, Type.

Lecidea capensis Zahlbr.

Zahlbruckner, Cat. Lich. III : 532.
Lecidea ochroidea Stizenberger (1891) 159, no. 1100.
on sandstone rocks, summit of Lion's Head, *MacOwan*, Type.

Lecidea cinnamomea Stizenb.

Stizenberger (1891) 138, no. 954 ; Zahlbruckner, Cat. Lich. III : 748.
on bark of pomiferous trees, near Lydenburg, *Wilms*, Type.

Lecidea crassa Stizenb.

Stizenberger (1891) 134, no. 928 ; Zahlbruckner, Cat. Lich. III : 866.
Lepraria crassa Nees apud Stizenberger, l.c.
on ground, Cape, *Zeyher*, Type ; near Sir Lowry Pass, *MacOwan*.

Lecidea crenata (Tayl.) Stizenb.

Stizenberger (1891) 149, no. 1042 ; Zahlbruckner, Cat. Lich. III : 866.
Endocarpon crenatum Taylor (1847) 156.
on the ground, near the Saltpan of the Zwartskops River, Uitenhage, *Zeyher*, (Herb. Hook.) Type ; Worcester and Matjesfontein, *Brunnthaler ;* Namaqualand, *R. Marloth ;* in dry watercourses, Kalahari Desert, *Schinz ;* Aughrabies Falls, *Barnard* (S.A.M. 28815) ; between Montagu and Triangle, *Barnard* (S.A.M. 28646).

Var. **coroniformis** (Krempelh.) Zahlbr.
Zahlbruckner (1932) 236, Cat. Lich. III : 866.
Lecidea coroniformis Krempelh., van der Byl (1931) 10.
on ground, Jansenville, *v. d. Byl 702 ;* near Douglas, *Grosskopf* (v. d. Byl 1043) ; Karroo, *v. d. Byl 1044 ;* Steinkopf, Namaqualand, *Meyer* (v. d. Byl 947).

Var. **speirea** (Tayl) Zahlbr.
Zahlbruckner, Cat. Lich. III : 866.
Endocarpon speireum Taylor (1948) 156.
on the ground, Bushman's country, *Zeyher*, Type (Herb. Hook.).

Lecidea crustulata (Ach.) Floerke.

Drège (1843) 86 ; Zahlbruckner, Cat. Lich. III : 549.
Lecidea nitidula Fries, von Flotow (1843) 21 ; Krauss (1846) 200.
on rocks, Paarlberg, *Drège ;* slopes of Lions Head, *Krauss*.

Lecidea cyanocentra Nyl.

Nylander (1869 a) 9 ; Stizenberger (1891) no. 963 ; not in Zahlbr. Cat. Lich.
on bark, Durban, *Armstromg*, Type.

Lecidea deceptoria Nyl.

Zahlbruckner (1932) 236, Cat. Lich. III : 867 ; van der Byl (1931) 10.
on decomposed rocks, Stellenbosch, *Duthie* (v. d. Byl 784).

Lecidea decipiens Ach.

Drège (1843) 52, 67, 92, 108 ; Stizenberger (1891) no. 1040 ; Zahlbruckner, Cat. Lich. III : 867.

Lichen incarnatus Thunberg (1800) 176, (1823) 742.

Biotora decipiens Fr., von Flotow (1843) 21 ; Krauss (1846) 200.

Patellaria incarnata Ach., Juel (1918) 50.

on calcareous soil and on crumbling rock, Cape, *Thunberg ;* Witberg, *Drège ;* Boschberg, *MacOwan*, 50 ; Haifischinsel, *Fincke ;* in the Karroo below the Bokkeveld, *Thunberg ;* near Koega River, *Krauss ;* between Droogeheuvels and Jakhalsfontein, *Drège ;* between Natvoet and Garip, *Drège ;* on dry, stony hills, Ebenezar, *Drège.*

Lecidea decrustulata Vain.

Vainio (1926) 25 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII ; 339.

on sandstone rock, Stellenbosch, *v. d. Byl 252*, Type and *v. d. Byl 258 pr.p.*

Lecidea elaeochroma Ach.

Drège (1843) 86 ; Zahlbruckner (1932) 225, Cat. Lich. III : 567.

Lecidea parasema Ach. var. *elaeochroma* Ach., Crombie (1876 a) 177 ; Stizenberger (1891) no. 1062.

Lecidea olivacea Massal., van der Byl (1931) 10.

on bark, near Cape Town, *MacOwan ;* Table Mt., *Eaton ;* The Heads, Knysna, *v. d. Byl 681 ;* on bark of **Quercus** sp., Elsenburg, *v. d. Byl 241* (det. Vain.) ; Genadendal, *Brunnthaler ;* Paarlberg, *Drège.*

f. **flavicans** (Ach.) Th. Fr.

Zahlbruckner (1932) 226, Cat. Lich. III : 570.

on bark of **Fraxinus excelsior** Linn., Stellenbosch, *v. d. Byl 816.*

f. **geographica** (Bagl.) Zahlbr.

Zahlbruckner, Cat. Lich. III : 571.

Lecidea enteroleuca Ach. var. *geographica* Bagl., Stizenberger (1891) no. 1066.

on bark, Table Mt., *Wilms ;* Lydenburg, *Wilms.*

Var. **hyalina** (Martius) Zahlbr.

Zahlbruckner, Cat. Lich. III : 571.

Lecidea olivacea Massal. var. *ambigua* Lettau, van der Byl (1931) 10.

on trunk of **Quercus** sp., Klapmuts, *v. d. Byl 141* (det. Vain.) ; Cape Town, Eyles (v. d. Byl 386) ; Elsenburg, *v. d. Byl ;* on **Rapanea melanophleos** Mez., The Heads, Knysna, *v. d. Byl.*

Lecidea elginensis Zahlbr.

Zahlbruckner (1936) 166.

on quartz rock, Viljoensdorp near Elgin, *v. d. Byl 1012*, Type.

Lecidea epichromatica Zahlbr.

Zahlbruckner (1932) 227.

on quartz rocks, Cape Point, *v. d. Byl 1006*, Type.

Lecidea esuriens Zahlbr.

Zahlbruckner (1936) 168.

on sandstone, Botany Bay, *v. d. Byl 999*, Type.

Lecidea exigua Chaub.

Zahlbruckner, Cat. Lich. III : 758.

Lecidea parasema Ach. var. *exigua* Nyl., Stizenberger (1891) no. 1062.

on bark, near Lydenburg, *Wilms.*

Lecidea exiguella Vain.

Vainio (1926) 21 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII : 369.
on bark of **Pinus** sp., Stellenbosch, *v. d. Byl 344*, Type.

Lecidea Finckei Zahlbr.

Zahlbruckner (1921) 237, (1926 b) 493, Cat. Lich. III : 760, VIII : 369.
on granite, Haifischinsel, off Lüderitzbucht, *Fincke* Type.

Lecidea fucina Stizenb.

Stizenberger (1891) 154, no. 1074 ; Zahlbruckner, Cat. Lich. III : 578.
on rocks in Warm Bokkeveld Mts., near Ceres, *MacOwan*, Type.

Lecidea fuscoatra Ach.

Zahlbruckner, Cat. Lich. III : 579.
Lecidea fumosa Ach., Drège (1843) 80, 85.
on rocks, du Toits Kloof, *Drège ;* Paarlberg, *Drège*.

Lecidea fuscotabulata Stizenb.

Stizenberger (1891) 162, no. 1109 ; Zahlbruckner, Cat. Lich. III : 587.
on hard rock, near Lydenburg, *Wilms*, Type.

Lecidea gëina Stizenb.

Stizenberger (1891) 154, no. 1075 ; Zahlbruckner, Cat. Lich. III : 587.
on ground, Lion's Head, *MacOwan*, Type.

Lecidea glebaria Stizenb.

Stizenberger (1891) 137, no. 953 ; Zahlbruckner, Cat. Lich. III : 768.
on ground, Spitzkop, near Lydenburg, *Wilms*, Type.

Lecidea glencairnensis Zahlbr.

Zahlbruckner (1932) 226.
on sandstone rocks, Glencairn, *v. d. Byl 1002*, Type.

Lecidea glomerulosa (DC) Steud.

van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. III : 588.
on trunk of **Quercus** sp., Stellenbosch, *v. d. Byl 237* (det. Vain.).

Lecidea gouritzensis Vain.

Vainio (1926) 25 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII : 342.
on rock, Gouritz River, *v. d. Byl 374*, Type.

Lecidea granifera (Ach.) Wain.

Wainio (1901) 424 ; Stizenberger, Cat. Lich. III : 768.
Lecidea aurigera Fée, Nylander (1869 a) 9 ; Hue (1891) 105 ; Stizenberger (1891) no. 940.
on bark, Durban, *Armstrong*.

Lecidea granulosula Nyl.

apud Crombie (1876 a) 177, (1876 b) 21 ; Hue (1891) 127 as *L. granulosa ;* Stizenberger (1891) no. 1069 ; Zahlbruckner, Cat. Lich. III : 592.
on rocks, Table Mt., *Eaton*, Type ; Lion's Head, *MacOwan*.

Lecidea grisella Floerke var. **Mosigii** Zahlbr.

Zahlbruckner, Cat. Lich. III : 594.
Lecidea fumosa var. *Mosigii* von Flotow (1843) 29 ; Krauss (1846) 200.
on decomposed granite, Camps Bay, *Krauss*.

Lecidea griseofusciuscula Vain.

apud Lynge (1937) 84 ; van der Byl (1931) 10.
on trunk of tree, Eshowe, *v. d. Byl 185, 186, 190, 194* (number of type not quoted by Lynge).

Lecidea guamensis Vain.

van der Byl (1931) 10.
on trunk of tree, Pinetown, *v. d. Byl 173* det. Vain.

Lecidea hereroënsis Zahlbr.

Zahlbruckner (1926 b) 492, Cat. Lich. VIII : 371.

f. **genuina** Zahlbr.

Zahlbruckner, l.c.
on primitive rocks, Windhoek, *Fincke*, Type.

f. **depauperata** Zahlbr.

Zahlbruckner, l.c.
on primitive rocks, Haifischinsel, on Lüderitzbucht, *Fincke*, Type.

Lecidea howickensis Vain.

Vainio (1926) 24 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII : 343.
on rock, Howick, *v. d. Byl 223*, Type.

Lecidea hysbergensis Vain.

Vainio (1926) 24 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII : 343.
on rock, Hysberge, between Callitzdorp and Ladismith, *v. d. Byl 373*, Type.

Lecidea inscripta Stizenb.

Stizenberger (1891) 154, no. 1072 ; Zahlbruckner, Cat. Lich. III : 599.
on rocks, near Lydenburg, *Wilms*, Type.

Lecidea insculpta Flotow

von Flotow (1843) 20 ; Krauss (1846) 200 ; Zahlbruckner, Cat. Lich. III : 599.
on rocks, Tygerberg, *Krauss*, Type.

f. **oxydata** Flotow.

von Flotow, l.c.
on rocks, Cape of Good Hope.

Lecidea lactaria Stizenb.

Stizenberger (1891) 158, no. 1094 ; Zahlbruckner (1932) 225, Cat. Lich. III : 604.
on red sandstone rocks, Lion's Head, *MacOwan*, Type ; on schistose rocks, Van Reenen's Pass, *Brunnthaler*.

Lecidea lactens Stizenb.

Stizenberger (1891) no. 1076.
on sandstone rocks, Lion's Head, *MacOwan*, Type.

Lecidea langbaanensis Vain.

Vainio (1926) 23 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII : 345.
on granite rocks, Langebaan, *v. d. Byl 357*, Type.

Lecidea leptobola Nyl.

Nylander (1868) 515 ; Hue (1891) 130 ; Stizenberger (1891) no. 1097 ; Wainio (1901) 426 ; Zahlbruckner, Cat. Lich. III : 615.
on sandstone rocks, Serra de Lopollo, near Huilla, *Welwitsch*.

Lecidea (?) lithagogo Wain.

Wainio (1901) 425 ; Zahlbruckner, Cat. Lich. III : 68.
Lecanora lithagogo Nylander (1868) 512 ; Hue (1891) 79 ; Stizenberger (1890) no. 828.
on calcareous rocks, Serra de Montes Negros, near Mossamedes, *Welwitsch 16, 51 pr.p.*

Lecidea meiospora Nyl.

Crombie (1876 a) 177 ; Stizenberger (1891) no. 1082 ; Zahlbruckner, Cat. Lich. III : 634.
on schistose rocks, Table Mt., *Eaton*.

Lecidea mossamedana Wain.

Wainio (1901) 424 ; Zahlbruckner, Cat. Lich. III : 803.
on limestone rocks, Serra de Montes Negros, *Welwitsch 13, 15 pr. p.*, Type.

Lecidea mutabilis Fée

Nylander (1869 a) 9 ; Stizenberger (1891) no. 930 ; J. Müller-Arg. (1893 b) 298 ; Schinz (1905) 395 ; Zahlbruckner, Cat. Lich. III : 803.
on bark, Durban, *Armstrong ;* near Boroma, *Menyharth*.

Lecidea natalensis Nyl.

Crombie (1877) 215 ; Stizenberger (1891) no. 945 ; Hue (1891) 109 ; Zahlbruckner, Cat. Lich. III : 804.
Lecidea fuscorubescens Nylander (1869 a) 9 (not *L. fuscorubescens* Nyl. in Lich. Andam. 1873).
on bark, Durban, *Armstrong*, Type.

Lecidea nigropallida Nyl.

Nylander (1857) 124 ; Stizenberger (1891) no. 1055.
Cape of Good Hope, *Drège*.

Lecidea obumbrata Nyl.

apud Crombie (1876 a) 177 ; Hue (1891) 129 ; Stizenberger (1891) no. 1111 ; Zahlbruckner, Cat. Lich. III : 643.
on rocks, Table Mt., *Eaton*, Type, *Jelinek*.

Lecidea ochroplaca Zahlbr.

Var. **intermedia** Zahlbr.

Zahlbruckner (1936) 167.
on sandstone, Sutherland Distr., *v. d. Byl 1078*, Type ; Calvinia, *v. d. Byl 1129 ;* Namaqualand, *v. d. Byl 1205*.

Var. **leprosa**

Zahlbruckner (1936) 166.
on sandstone, between Calvinia and Middelpos, *v. d. Byl 1093*, Type, *1114*.

Var. **polita** Zahlbr.

Zahlbruckner (1936) 167.
on sandstone, van Rhynsdorp, *v. d. Byl 1182*, Type.

Lecidea ochroxantha Nyl. f. **aethiopica** Stizenb.

Stizenberger (1891) 134, no. 922 ; Zahlbruckner, Cat. Lich. III : 884.
on bark, Boschberg, *MacOwan 511*, 58.

Lecidea oligocheila Zahlbr.

Zahlbruckner (1936) 167.
on sandstone rocks, Stellenbosch, *v. d. Byl 971*, Type.

Lecidea opalina Stizenb.

Stizenberger (1891) 138, no. 955 ; Zahlbruckner, Cat. Lich. III : 808.
on bark, near Lydenburg, *Wilms*, Type.

Lecidea orbiculata Stizenb.

Stizenberger (1891) 157, no. 1092 ; Zahlbruckner, Cat. Lich. III : 644.
on rocks, near Lydenburg, *Wilms*, Type.

Lecidea Owaniana Müll. Arg.

J. Müller-Arg. (1893 d) 127 ; Stizenberger (1895) no. 1083*bis* ; Zahlbruckner, Lich. III : 645.
on hard clay ground, South Africa, *MacOwan 531*, Type, Kew.

Lecidea pallidonigra Ach.

Acharius (1803) 43, (1810) 172, (1814) 23 ; Sprengel (1827) 257 ; Stizenberger (1891) no. 1071 ; Juel (1918) 50 ; Zahlbruckner, Cat. Lich. III : 645.
Lichen pallidoniger Acharius (1798) 80 ; Thunberg (1800) 80, (1823) 742.
Lichen peltatus **Lecidea pallidonigra* Lamarck (1813) 387.
on clay soil, near Cape Town, *Thunberg*.

Lecidea pantherina (Hoffm.) Ach.

Zahlbruckner, Cat. Lich. III : 647.

Lecidea lactea Floerke, Drège (1843) 86, 94 ; Nylander (1869 a) 12 ; Stizenberger (1891) no. 1090.

on rocks, Durban, *Armstrong ;* Garip, near mouth of Orange River, *Drège ;* Paarlberg, *Drège.*

Lecidea parasema Ach.

von Flotow (1843) 21 ; Drège (1843) 80 ; Krauss (1846) 200 ; Zahlbruckner, Cat. Lich. III : 651.

Lecidea enteroleuca Ach., Stizenberger (1891) no. 1066.

on sandstone rocks, Lion's Head, *MacOwan ;* Cape, *Wilms ;* du Toits Kloof, *Drège ;* on bark of **Gymnosporia,** near Uitenhage, *Krauss.*

Var. **areolata** Merrill

van der Byl (1931) 10 ? nom nud. (? not var. **areolata** Duf.).

on trunk of **Ficus** sp., Klapmuts, *v. d. Byl 90* (det. Merrill.).

Var. (?) **atropurpurea** Flotow.

von Flotow (1843) 21 ; Krauss (1846) 200 ; Zahlbruckner, Cat. Lich. III : 660

on bark of trees, near Constantia, *Krauss.*

Lecidea paraspeirea Stizenb.

Stizenberger (1891) 156, no. 1085 ; Zahlbruckner, Cat. Lich. III : 665.

on sandstone rocks, near Muizenberg, *MacOwan,* Type.

Lecidea peltasta Stirt.

Stirton (1877) 218 ; Zahlbruckner, Cat. Lich. III : 888.

on ground, Boschberg, *MacOwan,* Type.

Lecidea peltoloma Müll. Arg.

J. Müller-Arg. (1886) 287 ; Stizenberger (1891) 157, no. 1091. Zahlbruckner, Cat. Lich. III : 665.

on red sandstone rocks, near Lydenburg, *Wilms ;* Boschberg, *MacOwan.*

Lecidea peltulidea Stirt.

Stirton (1876) 160 ; Zahlbruckner, Cat. Lich. III : 888.

on the ground, South Africa, ? *MacOwan.*

Lecidea phalerata Stizenb.

Stizenberger (1891) 133, no. 917 ; Zahlbruckner, Cat. Lich. III : 889.

on crumbling granite rocks, Lion's Head, *MacOwan,* Type.

Lecidea placodina Nyl.

Nylander (1868) 514 ; Hue (1891) 128 ; Stizenberger (1891) no. 1064 ; Wainio (1901) 422 ; Zahlbruckner, Cat. Lich. III : 889.

on quartzite rocks, between Caroca and Cazimba, nr. Mossamedes, *Welwitsch 49.*

Lecidea promontorii Zahlbr.

Zahlbruckner (1932) 232.

on non-calcareous rocks, slopes of Table Mt. opposite Camps Bay, *Brunnthaler.*

Lecidea quartzina Stizenb.

Stizenberger (1891) 160, no. 1102 ; Zahlbruckner, Cat. Lich. III : 682.
on pieces of quartzite and crumbling granite rock, Lion's Head, *MacOwan*, Type.

Lecidea remota Vain.

van der Byl (1931) 10, ? nom. nud.
on tree trunks, Woodwush, *v. d. Byl 527* (det. Vain.)

Lecidea rhynsdorpensis Zahlbr.

Zahlbruckner (1932) 230.
on friable quartz rocks, Van Rhyn's Pass, van Rhynsdorp, *v. d. Byl 764*, Type.

Lecidea rivulosa Ach.

Zahlbruckner (1932) 236, Cat. Lich. III : 818.
on granite rocks, Caledon, *Brunnthaler*.

Lecidea russula Ach.

Stizenberger (1891 & 1895) no. 927 ; J. Müller-Arg. (1893 b) 298 ; Wainio (1901 422 ; Zahlbruckner (1932) 236, Cat. Lich. III : 823.
on hard rocks, near Lydenburg and Krugerspost, *Wilms*.
on branches and trunks of trees and shrubs, near Boroma, *Menyharth 255 ;* in high forest, Morro de Lopollo, *Welwitsch 37, 39, 40 ;* near Salisbury, *v. d. Byl 601 ;* Onrust, *v. d. Byl 326 pr. p.* (det. Vain.).

Lecidea speirea Ach.

Drège (1843) 92 ; Zahlbruckner, Cat. Lich. III : 692.
Lecidea crenata (Tayl.) Stiz. var. *speirea* Stizenberger (1891) 149, no. 1042. (See also *Lecidea crenata* var. *speirea* Zahlbr.).
on rocks, Cape, *Zeyher ;* between Natvoet and Garip, *Drège*.

Lecidea squamifera Stizenb.

Stizenberger (1891) 160, no. 1101 ; Zahlbruckner, Cat. Lich. III : 696.
on rocks and clay, Lion's Head, *MacOwan*, Type.

Var. **Bylii** Zahlbr.

Zahlbruckner (1932) 231.
on non-calcareous rocks, Calvinia, *v. d. Byl 772*, Type.

Lecidea stellans Stizenb.

Stizenberger (1891) 158, no. 1095 ; Zahlbruckner, Cat. Lich. III : 696.
on cliffs near Lydenburg, *Wilms*, Type.

Lecidea stellenboschiana Vain.

Vainio (1926) 23 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII : 359.
on bark of leafy tree, near Stellenbosch, *v. d. Byl 385*, Type.

Lecidea stupparia Stizenb.

Stizenberger (1891) 136, no. 937 ; Zahlbruckner, Cat. Lich. III : 831.
on bark, Boschberg, *MacOwan*, Type (Herb. Lojka).

Lecidea subalbicans Nyl.

apud Crombie (1876 a) 176, (1876 b) 21 ; Hue (1891) 109 ; Stizenberger (1891) no. 948 ; Zahlbruckner, Cat. Lich. III : 831.
on rocks, Table Mt., *Eaton*, Type

Lecidea subattingens Merrill.

van der Byl (1931) 11, ? nom. nud.
on **Hakea** sp., Klapmuts, *v. d. Byl* (det. Merrill.).

Lecidea subceresina Zahlbr.

Zahlbruckner (1932) 229.
on non-calcareous rocks, World's Veiw, van Reenen Pass, *Brunnthaler*, Type.

Lecidea subexigua Vain.

Vainio (1926) 22 ; van der Byl (1931) 10 ; Zahlbruckner, Cat. Lich. VIII : 379.
on bark of **Ficus elastica** Roxb., near Knysna, *v. d. Byl 271*, Type.

Lecidea subexiguella Vain.

Vainio (1926) 21 ; van der Byl (1931) 11 ; Zahlbruckner, Cat. Lich. VIII : 379.
on bark of **Ficus elastica** Roxb., near Knysna, *v. d. Byl 279*, Type.

Lecidea subinquinans Nyl.

Nylander (1869 a) 11 ; Stizenberger (1891) no. 1203 : Vouaux (1914) 189,
on thallus of ?**Parmelia crinita,** Durban, *Armstrong*.
Not mentioned in Zahlbruckner, Cat. Lich. ; the specific name suggests close relationship with *Lecidea inquinans* Nyl., which is a fungus, *Nesolechia inquinans* (Tyl.) Mass., see Vouaux (1913) 411, (1914) 189 ; Vouaux did not study *Lecidea subinquinans*.

Lecidea sublucida Stizenb.

Stizenberger (1891) 135, no. 929 ; Zahlbruckner, Cat. Lich. III : 833.
on branches of tree, Spitzkop near Lydenburg, *Wilms*, Type.

Lecidea subsquamifera Zahlbr.

Zahlbruckner, (1932) 231.
on sandstone rocks, Gouritzrivier, *v. d. Byl 828*, Type.

Lecidea subrussula Steiner

Steiner (1907) 644 ; Zahlbruckner, Cat. Lich. III : 834.
on bark, Mt. Mamotsuiri, *Junod 992 pr. p.* (Type in Herb. Barbey-Boissier).

Lecidea substylosa Zahlbr.

Zahlbruckner (1932) 228.
on granite rocks, Lüderitzbucht, *F. & R. von Wettstein*, Type.

Lecidea sulfurosula Stizenb.

Stizenberger (1891) 153, no. 1070 ; Zahlbruckner, Cat. Lich. III : 705.
on granite rocks, Lion's Head, *MacOwan*, Type (ass. *Biatorella lugens* Zahlbr.).

Lecidea tenebricosa (Ach.) Nyl.

Stizenberger (1891) no. 958 ; Zahlbruckner, Cat. Lich. III : 836.
on bark, near Lydenburg, *Wilms*.

Lecidea terrena Nyl.

apud Crombie (1876 a) 177 ; Hue (1891) 131 ; Stizenberger (1891) no. 1083 ; Zahlbruckner, Cat. Lich. III : 709.
on ground amongst quartz detritus, Table Mt., *Eaton*, Type.

Lecidea thaleriza Stirt.

Stirton (1877) 217 ; Stizenberger (1891) no. 936, nota ; Zahlbruckner, Cat. Lich. III : 895.
on bark, Boschberg, *MacOwan*, Type.

Lecidea theichroa Vain.

Vainio (1926) 20 ; van der Byl (1931) 11 ; Zahlbruckner, Cat. Lich. VIII : 380.
on bark of tree, Onrust, *v. d. Byl 330*, Type.

Lecidea theiphoroides Vain.

apud Lynge (1937) 85.
on bark of **Thespesia** sp., Eshowe, *v. d. Byl 190*, Type.

Lecidea tragorum Zahlbr.

Zahlbruckner (1936) 168.
on granite rock, Springbok, Namaqualand, *v. d. Byl 1147*, Type.

Lecidea Trichiliae Zahlbr.

Zahlbruckner (1936) 169.
on bark of **Trichilia emetica** Vahl, Woodbush, *v. d. Byl 488*.

Lecidea valida Stizenb.

Stizenberger (1891) 161, no. 1104 ; Zahlbruckner, Cat. Lich. III : 715.
on rocks, near Lydenburg, *Wilms*, Type.

Lecidea vernalis Ach.

Drège (1843) 85, 90, 132, 134 ; Zahlbruckner, Cat. Lich. III : 852.
on bark, Paarlberg, *Drège ;* Silverfontein, *Drège ;* Samteesvlakte near Enon, *Drège ;* du Toits Kloof, *Drège ;* Hofmanskraal between Enon and Zuureberg, *Drège*.
Lecidea vernalis is recorded by Drège without the name of the author of the species ; these collections might therefore be *L. vernalis* S. Gray, which is a synonum for *Bacidia luteola* Mudd.

Lecidea vestita (Mont.) Nyl.

Nylander (1869 a) 11 ; Stizenberger (1891) no. 1004.
on bark, Durban, *Armstrong*.

Lecidea viridans Lamy var. **nigrella** (Massal.) Steiner

Steiner (1897) 225 ; Zahlbruckner, Cat. Lich. III : 717.
Lecidella nigrella Massalongo (1861) 71.
Lecidea nigrella Stizenberger (1891) 153, no. 1068.
on rocks, Table Mt., *Wawra*.

Lecidea vorticosa (Floerke) Körb.

Stizenberger (1891) no. 1072 ; van der Byl (1931) 11 ; Zahlbruckner, (1932) 225, Cat. Lich. III : 717.

on sandstone rocks, near Muizenberg, *MacOwan ;* on non-calcareous rocks, Bloukransrivier, *v. d. Byl 665.*

Lecidea vulgata Zahlbr.

Zahlbruckner, Cat. Lich. III : 718.

Lecidea goniophila Floerke, Drège (1843) 92 ; van der Byl (1931) 10.

on stone, Klapmuts, *v. d. Byl 98* (det. Merrill.) ; between Natvoet and Garip, *Drège.*

Lecidea Zeyheri (Massal.) Zahlbr.

Zahlbruckner (1926 c) Pl. 6, f. 1-4. Cat. Lich. III : 860.

Biatora Zeyheri Massalongo (1861) 88.

on trunks of trees, Cape, *Ecklon & Zeyher.*

Lopadium fuscoluteum Mudd.

Zahlbruckner, Cat. Lich. IV : 302.

Lecidea fuscolutea Ach., Drège (1843) 80.

on rocks, du Toits Kloof, *Drège.*

Lopadium leucoxanthum (Spreng.) Zahlbr.

Zahlbruckner (1932) 241, Cat. Lich. IV : 306.

Lecidea leucoxantha Spreng., Crombie (1876 a) 177 ; Nylander (1869 a) 10 ; Stizenberger (1891) no. 1029.

Megalospora lutea Flotow, von Flotow (1843) 21 ; Krauss (1846) 201.

Sporopodium leucoxanthum Vain., van der Byl (1931) 9.

on bark, Table Mt., *Eaton ;* Durban, *Armstrong ;* near Bazuja, *Baur ;* Hoofbos, Knysna, *v. d. Byl 891 ;* The Heads, Knysna, *v. d. Byl 906 ;* ? Lydenburg, *Wilms 2730, 2732* (sub Mellitosporiopsis in Herb. Kew) ; near Constantia, *Krauss* ; on **Calodendron capense** Thunb., Keurboomsrivier, *v. d. Byl 284,* (det. Vain.).

Lopadium Mariae (Trevis.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 307.

Brigantiaea Mariae Trevisan (1853 b) 9, (1856) 285.

Heterothecium Mariae Müll. Arg., J. Müller-Arg. (1886) 126.

on bark, Cape of Good Hope.

Lopadium vulpinum (Tuckerm.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 316.

Lecidea vulpina Tuck., Stizenberger (1891) no. 1030.

Lecanora vulpina Nylander (1869 a) 6.

on bark, Durban, *Armstrong.*

Lopadium Woodii (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 317.

Lecidea Woodii Stizenberger (1891) 148, no. 1035.

on leaves, Durban, *Medley Wood,* Type (Herb. Lojka).

Megalospora Stellenboschiana (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 395.
Catillaria Stellenboschiana Vainio (1926) 19 ; van der Byl (1931) 10.
on stones, Stellenbosch, *Verwoerd* (v. d. Byl 402) Type.

Megalospora versicolor (Fée) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 91.
Lecidea versicolor Nylander (1869 a) 10 ; Hue (1891) 112 ; Stizenberger (1891) no. 1015.
on bark, Durban, *Armstrong*.

Rhizocarpon affine Merrill

in Herb. van der Byl, ? nom. nud.
on rock, Klapmuts, *v. d. Byl 100 pr. p.* (det. Merrill).

Rhizocarpon badio-atrum Th. Fr. var. **alboatrum** Malme

Zahlbruckner, Cat. Lich. IV : 324.
Lecidea atroalba Ach., Drège (1843) 86.
on rocks, Paarlberg, *Drège*.

Rhizocarpon capense Zahlbr.

Zahlbruckner (1936) 170.
on sandstone, Glencairn, *v. d. Byl 1005*, Type.

Rhizocarpon disporum Müll.-Arg. var. **Montagnei** (Flotow) Zahlbr.

Zahlbruckner (1932) 241, Cat. Lich. IV : 355.
Rhizocarpon Montagnei Körb., Zahlbruckner (1926 b) 497.
Lecidea Montagnei Flotow, Stizenberger (1891) no. 1116.
on sandstone rocks, Lion's Head, *MacOwan* ; on granite rocks, Kloof Neck, *Brunnthaler*.

Rhizocarpon geographicum (Linn.) DC.

Zahlbruckner, Cat. Lich. IV : 359.
Lecidea geographica Rebent., Drège (1843) 53 ; Crombie (1876 a) 179 ; Stizenberger (1891) no. 1185.
on rocks, summit of table Mt., *Eaton* ; Boschberg, *MacOwen* ; near Lydenberg, *Wilms* ; Witberg, *Drège*.

f. **atrovirens** Massal.

Zahlbruckner, Cat. Lich. IV : 363.
Lichen atrovirens Linn., Thunberg (1800) 176.
Lecidea atrovirens Ach., Thunberg (1823) 742.
on rocks, Table Mt., *Thunberg*.

f. **intermedium** (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 368.
Lecidea geographica Rebent. f. *intermedia* Stizenberger (1891) 177, no. 1185.
on crumbling granite rock, near Muizenberg, and on Lion's Head, *MacOwan*.

Rhizocarpon patellarium (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 382.
Lecidea patellaria Stizenberger (1891) 163, no. 1119.
on rocks, Lion's Head, *MacOwan*, Type.

Rhizocarpon viridiatrum Körb.

Zahlbruckner (1926 b) 498, Cat. Lich. IV : 394.
on shale, van Reenen's Pass, *Brunnthaler*.

Toninia bumamma (Nyl.) Zahlbr.

Zahlbruckner (1926 b) 495, (1932) 240, Cat. Lich. IV : 263 ; van der Byl (1931) 11.
Lecidia bumamma Nyl. apud Crombie (1876 a) 177 ; Hue (1891) 125.
Lecidea styloumena Stirton (1877) 217.
on soil in crevices of rocks, Table Mt., *Eaton*, *MacOwan* ; near Klein Vis Rivier, *MacOwan 524*, 62 ; Lydenburg, *McLea* (Herb. Rehmann) ; Matjesfontein, *Brunnthaler* ; Jansenville, *P. Slabbert* (v. d. Byl 707).

Toninia caeruleonigricans Th. Fr.

Zahlbruckner, Cat. Lich. IV : 266.
Lecidea vesicularis Ach., Drège (1843) 92.
on soil, between Natvoer and Garip, *Drège*.

Toninia caesiopallida (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 263.
Lecidea caesiopallida Nylander apud Hue (1891) 124 ; Stizenberger (1891) no. 1054.
on rocks, Cape, *Zeyher*.

Toninia flava Zahlbr.

Zahlbruckner (1932) 240.
on quartz rocks, Langbaan, *v. d. Byl 540*, Type.

Toninia incretata (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. IV : 274.
Lecidea incretata, Stizenberger (1891) 150, no. 1051.
on soft sandstone rocks, summit of Lion's Head, *MacOwan*, Type.

Toninia verrucosa Flagey

Zahlbruckner (1926 b) 497.
on crumbling stone, Haifischinsel off Lüderitzbucht, *Fincke*.

PHYLLOPSORACEAE.

Phyllopsora breviuscula (Nyl.) Müll. Arg.

Zahlbruckner, Cat. Lich. IV : 396.
Lecidea breviuscula Nylander (1869 a) 9 ; Stizenberger (1891) no. 925.
on bark, Durban, *Armstrong*.

Phyllopsora corallina (Eschw.) Müll. Arg.

Zahlbruckner, Cat. Lich. IV : 397.
Lecidea santensis Tuckerm, Nylander (1869 a) 9 ; Stizenberger (1891) no. 926.
on bark, Durban, *Armstrong*.

Phyllopsora parvifolia (Pers.) Müll. Arg.

Zahlbruckner, Cat. Lich. IV : 399.
Lecidea parvifolia Pers., Nylander (1869 a) 8 ; Stizenberger (1891) no. 923.
on bark, Durban, *Armstrong* ; ? Boschberg, *MacOwan 517*, 60.

Var. **fibrillifera** (Nyl.) Müll. Arg.

Zahlbruckner, Cat. Lich. IV : 399.

Lecidea parvifolia var. *fibrillifera* Nyl., Stirton (1877) 217 ; Stizenberger (1891) no. 923.

South Africa, without locality.

Var. **pulvinata** Steiner.

Steiner (1907) 644 ; Zahlbruckner, Cat. Lich. IV : 400.

on bark, Mt. Mamotsuiri, *Junod 993 pr. p.. 999.*

Phyllopsora parvifoliella (Nyl.) Müll. Arg.

Zahlbruckner, Cat. Lich. IV : 400.

Lecidea parvifoliella Nylander (1869 a) 8 ; Stizenberger (1891) no. 924.

on bark, Durban, *Armstrong.*

CLADONIACEAE.

Baeomyces roseus Pers.

Stizenberger (1890) no. 93 ; van der Byl (1933 b) 2 ; Zahlbruckner, Cat. Lich. IV : 415.

on ground, Spitzkop, near Lydenburg, *Wilms ;* Buccleuch, *Leighton*, 7.

Cladonia aggregata (Sw.) Ach.

Nylander (1860 a) 218 ; Drège (1843) 89 ; Wainio (1887) 224, (1894) 447, (1897) 223 ; van der Byl (1933 b) 7 ; Zahlbruckner, Cat. Lich. IV : 437.

Cladia aggregata (Sw.) Nyl., Crombie (1876 a) 166 ; Stizenberger (1890) no. 158.

on ground, Table Mt., *Drège ;* Baviaanskloof, *Breutel ;* Table Mt., *Eaton.*

Cladonia bacillaris (Del.) Nyl.

Stizenberger (1890) no. 144 ; Wainio (1887) 68, (1894) 441, (1897) 226 ; Steiner (1907) 644 ; Zahlbruckner, (1932) 242, Cat. Lich. IV : 444 ; van der Byl (1931) 11, (1933 b) 8 ; des Abbayes (1938) 348.

on dead branches and rotten stumps of trees, Knysna, *v. d. Byl 645 ;* Woodbush, *Doidge*, 12 (det. Lindau) ; Kirstenbosch, *Bottomley*, 781 ; on decomposed vegetable detritus, Deepwalls, *Phillips* (Br. Mus.) ; on ground or amongst moss, Mt. Mamotsuiri, *Junod 986 ;* Montagu Pass Road, *Doidge*, 249 ; Deepwalls, *Bottomley*, 1620 ; Umtali, *Eyles 1739*, 248.

f. **pityropoda** Nyl.

Zahlbruckner, Cat. Lich. IV : 447 ; des Abbayes (1938) 348.

on damp turf, Mt. Nuza, S. Rhodesia, *Gilliland* (Br. Mus.).

Cladonia caespiticia (Pers.) Floerke

Stizenberger (1890) no. 139 ; Wainio (1887) 458, (1894) 460, (1897) 244 ; Zahlbruckner, Cat. Lich. IV : 452.

on ground, top of Table Mt., *Rehmann.*

Cladonia centrophora Müll. Arg.

Stizenberger (1890) no. 124 : Wainio (1894) 171, (1897) 260 ; Zahlbruckner, Cat. Lich. IV : 460.

Table Mt., *Wilms.*

Cladonia didyma (Fée) Wain. var. **muscigena** (Exchw.) Wain.

Wainio (1887) 141, (1894 443, (1897) 225 ; Zahlbruckner, Cat. Lich. IV : 489 ; des Abbayes (1938) 347.

on a piece of putrid wood, Deepwalls, *Phillips* (Br. Mus.).

f. **subulata** Sandst.

des Abbayes (1938) 347.

on decomposed mosses, Deepwalls, *Phillips* (Br. Mus.).

Cladonia fimbriata (Linn.) Fr.

Crombie (1876 a) 166 ; Stizenberger (1890) no. 119 ; Wainio (1894) 246, (1897) 253 ; van der Byl (1931) 11, (1933 b) 11 ; Zahlbruckner, Cat. Lich. IV : 494.

Lichen fimbriatus Linn., Thunberg (1800) 179, (1823) 749.

on the ground, Table Mt., *Eaton, Thunberg ;* Somerset East, *MacOwan* (S.A.M. 46969) ; Riviersonderend, *Thorne* (S.A.M. 45843) ; on rotten stump, Knysna, *v. d. Byl 429 ;* Woodbush, *v. d. Byl.*

Var. **Balfourii** (Cromb.) Wain.

Wainio (1894) 339, (1897) 255 ; Zahlbruckner, Cat. Lich. IV : 496.

Cladonia fimbriata var. *chondroidea* Wain. f. *Balfourii* (Cromb.) Wain., des Abbayes (1938) 348.

Transvaal, *H. Wager* (Br. Mus.) ; Imleezane, *T. R. Sim* (Br. Mus.).

Var. **chlorophaeoides** Wain.

Stizenberger (1890) no. 119 ; Wainio (1894) 336, (1897) 254 ; Zahlbruckner, Cat. Lich. IV : 497.

Cladonia fimbriata var. *chondroidea* f. *chlorophaeoides* Wain., des Abbayes (1938) 348

on ground, near Elim, *Breutel ;* Edgehill, Mooi River, *T. R. Sim* (Br. Mus.).

Var. **chondroidea** Wain.

Stizenberger (1890) no. 119 ; Wainio (1894) 334, (1897) 254 ; van der Byl (1933 b) 12 ; Zahlbruckner, Cat. Lich. IV : 497.

Transvaal, *Wilms.*

Var. **coniocrea** (Floerke) Wain.

Wainio (1894) 308, (1897) 254 ; Steiner (1907) 644 ; Zahlbruckner, Cat. Lich. IV : 497.

on ground, Stellenbosch, *Duthie* 5.

Var. **nemoxyna** (Ach.) Coem.

Wainio (1894) 295, (1897) 253 ; van der Byl (1933 b) 12 ; Zahlbruckner, Cat. Lich, IV : 500.

Cladonia fimbriata var. *radiata* (Schreb.) Coem. f. *nemoxyna* Flotow, Stizenberger (1890) no. 119.

amongst heath, Table Mt., *Jelinek ;* on tree trunk, Garcia Pass, Riversdale, *Muir 4885.*

f. **fibula** (Ach.) Wain.

Wainio (1894) 301, (1897) 253 ; van der Byl (1933 b) 12 ; Zahlbruckner, Cat. Lich. IV : 500.

Cladonia fimbriata var. *fibula* (Ach.) Stizenberger (1890) no. 119.

on bark of trees, near Baziya (MacOwan 802).

Var. **ochrochlora** (Floerke) Wain.

Wainio (1894) 319, (1897) 254 ; Zahlbruckner, Cat. Lich. IV : 502.

Cladonia ochrochlora Floerke, van der Byl (1931) 11, (1933 b) 12.

on rotten stump, Knysna, *v. d. Byl ;* Garcia's Pass, Riversdale, *Thorne* (S.A.M. 38825).

Var. **radiata** (Schreb.) Coem.

Stizenberger (1890) no. 119 ; Wainio (1894) 227, (1897) 253 ; van der Byl (1933 b) 12 ; Zahlbruckner, Cat. Lich. IV : 505.

on soil and on old wood, South Africa, *Breutel ;* Boschberg, *MacOwan 50, 501,* 14.

Var. **simplex** (Weiss.) Flotow.

Wainio (1894) 256, (1897) 253 ; van der Byl (1931) 11, (1933 b) 12 ; Zahlbruckner, Cat. Lich. IV: 507.

Cladonia fimbriata var. *tubaeformis* Ach., Stirton (1877) 212 ; Stizenberger (1890) no. 119.

on an ant heap, Klapmuts, *v. d. Byl 103* (det. Merrill) : South Africa, without locality (Stirton l.c.).

Var. **subradiata** Wain.

Wainio (1894) 282, (1897) 253 ; Zahlbruckner, Cat. Lich. IV : 510.

Cladonia fimbriata var. *chondroidea* f. *subradiata* Wain., des Abbayes (1938) 348.

Mid-Illovo, *T. R. Sim* (Br. Mus.).

Var. **subulata** (Linn.) Wain.

Wainio (1894) 282, (1897) 253.

f. **abortiva** Harm.

van der Byl (1933 b) 13 ; Zahlbruckner, Cat. Lich. IV : 511.

Cladonia fimbriata f. *abortiva* Floerke, Stizenberger (1890) no. 119.

Transvaal, *Rehmann.*

f. **chordalis** Ach.

van der Byl (1933 b) 13 ; Zahlbruckner, Cat. Lich. IV : 512.

Cladonia chordalis Ach., Stizenberger (1890) no. 120.

Top of Table Mt., *MacOwan 195.*

f. **subcornuta** Zahlbr.

Zahlbruckner, Cat. Lich. IV : 513.

Cladonia fimbriata var. *subcornuta* Nyl., Crombie (1876 a) 166.

Cladonia subcornuta (Nyl.) Stizenberger (1890 & 1895) no. 122.

on ground, Table Mt., *Eaton.*

Cladonia flabelliformis (Floerke) Wain. f. **tenella** Zahlbr.

van der Byl (1933 b) 8 ; Zahlbruckner, Cat. Lich. IV : 514.

Cladonia flabelliformis var. *tenella* Müll. Arg., Stizenberger (1893) no. 144*bis.*

on dead wood, Table Mt., *Wilms.*

Cladonia Floerkiana (Fr.) Sommerf.

Wainio (1887) 72, (1894) 440, (1897) 225 ; van der Byl (1931) 11, (1933 b) 8 ; Zahlbruckner, Cat. Lich. IV : 516.

on rotting wood, Woodbush, *v. d. Byl 425, 535* (det. Vain.) ; on ground, Hermanus, *v. d. Byl ;* Knysna, *v. d. Byl.*

Cladonia furcata (Huds.) Schrad.

Crombie (1876 a) 166 ; Wainio (1887) 316, (1894) 450, (1897) 239 ; Stizenberger (1890) no. 133 ; van der Byl (1933 b) 9 ; Zahlbruckner, Cat. Lich. IV : 525.

on ground, among mosses, Table Mt., *Eaton ;* on bare rocks, Garcia's Pass, Riversdale, *Muir 3767,* 1395.

Cladonia gorgonina (Bory) Wain. var. **subrangiferina** (Nyl.) Wain.

Wainio (1887) 309, (1897) 237 ; Zahlbruckner, Cat. Lich. IV : 539 ; des Abbayes (1938) 348.

Nyasaland, *Burtt Davy* (Br. Mus.).

Cladonia macilenta Hoffm.

Wainio (1887) 98, (1894) 442, (1897) 227 ; Stizenberger (1890) no. 145 ; van der Byl (1933 b) 7 ; Zahlbruckner, Cat. Lich. IV : 555.

South Africa, without locality, *Breutel, MacOwan ;* Garcia's Pass, Riversdale, *Thorne* (S.A.M. 38830), *Muir 4884 ;* Langeberg, *Barnard* (S.A.M. 32676) ; Table Mt., *MacOwan*

Var. **corticata** Wain.

Wainio (1887) 112, (1894) 442, (1897) 227 ; Stizenberger (1890) no. 145 ; van der Byl (1933 b) 7 ; Zahlbruckner, Cat. Lich. IV : 556.

on ground, Kooksbosch, *Breutel.*

Cladonia multiformis Merrill f. **subascypha** (Wain.) Evans

Zahlbruckner, Cat. Lich. VIII : 463 ; des Abbayes (1938) 348.

on earth and on a rotten trunk, Deepwalls, *Phillips* (Br. Mus.) ; Mt. Nuza, S. Rhodesia, *Gilliland* (Br. Mus.).

Cladonia pityrea (Floerke) Fr.

Wainio (1894) 349, (1897) 255 ; Stizenberger (1890) no. 117 ; van der Byl (1933 b) 11 ; Zahlbruckner, Cat. Lich. IV : 566.

on dry ground, Table Mt., *Jelinek.*

Var. **subareolata** Wain.

Zahlbruckner, Cat. Lich. IV : 567 ; des Abbayes (1938) 348.

Ihluku, Harding, *T. R. Sim* (Br. Mus.).

Var. **Zwackhii** Wain. f. **scyphifera** (Del.) Wain.

Wainio (1894) 354, (1897) 255 ; Zahlbruckner, Cat. Lich. IV : 569.

Cladonia pityrea f. *scyphifera* Del., Stizenberger (1890) no. 117 ; van der Byl (1933 b) 11.

Kooksbosch, *Breutel.*

Cladonia pycnoclada (Gaudich) Nyl.

Stizenberger (1890) no. 150 ; Wainio (1894) 209, (1897) 252 : van der Byl (1933 b) 6 ; Zahlbruckner, Cat. Lich. IV : 573 ; des Abbayes (1938) 347.

Table Mt., *MacOwan ;* South Africa, without locality, *Milne ;* Hankey, *T. R. Sim* (Brit. (Mus.) : East Pondoland, *T. R. Sim* (Br. Mus.).

f. **exalbescens** Wain.

Zahlbruckner, Cat. Lich. IV : 573 ; des Abbayes (1938) 347.

Maritzburg, *T. R. Sim* (Br. Mus.).

Cladonia pyxidata (Linn.) Fr.

Stizenberger (1890) no. 116 ; Wainio (1894) 209, (1897) 252 ; van der Byl (1933 d) 10 ; Zahlbruckner, Cat. Lich. IV : 573.

Lichen pyxidatus Linn., Thunberg (1800) 179, (1823) 748.

? Cladonia neglecta (? author) Drège (1843) 80, 82, 85.

Cape of Good Hope, *Breutel ;* on slopes of Table Mt., and Lion's Head,

Thunberg ; amongst moss, Bain's Kloof, *Doidge*, 20 ; ? Paarlberg, *Drège* ; ? du Toits Kloof, *Drège*.

Var. **chlorophaea** Floerke

Wainio (1894) 232, (1897) 252 ; van der Byl (1933 b) 10 ; Zahlbruckner, Cat. Lich. IV : 575.

Cladonia chlorophaea Spreng., van der Byl (1931) 11.

on a stone on the ground, Umtali, *Eyles 5855*.

f. **staphylea** (Ach.) Harm.

Zahlbruckner, Cat. Lich. IV : 579.

Cladonia pyxidata f. *staphylea* (Ach.) Nyl., Stizenberger (1890) no. 116.

Cape of Good Hope, *Breutel*.

Var. **pocillum** (Ach.) Flotow.

Stizenberger (1890) no. 116 ; Wainio (1894) 241, (1897) 252 ; van der Byl (1933 b) 10 ; Zahlbruckner, Cat. Lich. IV : 582.

Cape of Good Hope, *Jelinek*.

Cladonia rangiferina (Linn.) Web.

Wainio (1887) 9, (1894) 439, (1897) 222 ; Juel (1918) 51 ; Zahlbruckner, Cat. Lich. IV : 583.

Lichen rangiferinus Linn., Thunberg (1800) 180, (1823) 749.

on ground, top of Table Mt., *Thunberg*.

Cladonia rangiformis Hoffm.

Var. **foliosa** Floerke.

Wainio (1887) 366 ; van der Byl (1933 b) ; Zahlbruckner, Cat. Lich. IV : 589.

Cladonia pungens Floerke f. *foliolosa* Nyl., Stizenberger (1890) no. 135.

Cape of Good Hope, *MacOwan*.

Var. **pungens** (Ach.) Wain.

Wainio (1887) 361, (1894) 451, (1897) 236 ; Zahlbruckner, Cat. Lich. IV : 590.

Cladonia pungens Floerke, Stizenberger (1890) no. 135.

on damp places on Table Mt., *Jelinek*.

Cladonia squamosa (Scop.) Hoffm.

Drège (1843) 116, 124 ; Wainio (1887) 411, (1894) 455, (1897) 242 ; Stizenberger (1890) no. 138 ; van der Byl (1933 b) 9 ; Zahlbruckner, Cat. Lich. IV : 594.

on the ground, Cape of Good Hope, *Milne* ; on rocks, with mosses, Garcia's Pass, Riversdale, *Muir 3702*, 1396 ; Gnadenthal, *Drège* ; Hoogekraalsrivier, *Drège*.

Cladonia sylvatica (Linn.) Hoffm.

Wainio (1887) 18, (1894) 439, (1897) 222 ; Stizenberger (1890) no. 149 ; Zahlbruckner (1926 b) 498, Cat. Lich. IV : 609 ; van der Byl (1933 b) 6.

on ground, Cape of Good Hope, *MacOwan, Jelinek* ; plateau above Baakens River Valley, Port Elizabeth, *Brunnthaler*.

Cladonia verticillata Hoffm.

Drège (1843) 89 ; Zahlbruckner, Cat. Lich. IV : 621.

n damp places, Table Mt., *Drège*.

(?) **Cladonia** sp.

Scyphophorum monocarpum Acharius (1798) 196 ; Stizenberger (1890) no. 145, Footnote ; Wainio (1887) 103.
Lichen monocarpus Thunb., Acharius (1798) 196 ; Thunberg (1800) 180, (1823) 749.
Baeomyces monocarpus Acharius (1803) 331.
Cape, *Thunberg*.

The genus *Scyphophorum* has been sunk under *Cladonia* (Zahlbruckner 1926 a : 205) but this species is not mentioned in the Cat. Lich. under any of the synonyms given above. Wainio's Monographia Cladoniarum universalis (1887, l.c.) has not been available for reference.

Pilophoron aciculare (Ach.) Nyl.

Nylander (1860 a) 229 ; Stizenberger (1890) no. 111 ; Zahlbruckner, Cat. Lich. IV : 431.
on earth and on rocks, Cape of Good Hope (Herb. Hook.).

Stereocaulon proximum Nyl.

Nylander (1860 a) 237 ; Zahlbruckner, Cat. Lich. IV : 660.
South Africa, without locality (Nylander).

GYROPHORACEAE.

Dermatiscum viride (Linn. f.) Zahlbr.

Zahlbruckner (1932) 243, Cat. Lich. IV : 754 ; van der Byl (1931) 11.
Lichen viridis Linn. f. (1781) 451.
Lichen Thunbergii Acharius (1798) 143 ; Thunberg (1800) 177, (1823) 745.
Endocarpon Thunbergii Acharius (1803) 129, (1810) 301, (1814) 101 ; Sprengel (1827) 239 ; von Flotow (1843) 26 ; Krauss (1846) 200 ; Juel (1918) 51.
Lichen hepaticus **Endocarpon Thunbergii* Lamarck (1813) 426.
Dermatiscum Thunbergii Nylander (1857) 116, (1867) 133 ; Hue (1891) 37.
Umbilicaria Thunbergii Reinke (1895) 412.
Umbilicaria flavovirescens Leighton (1869) 34.
on rocks, Cape of Good Hope, *Thunberg ;* Table Mt., *MacOwan 52* (Lichenoth, univ. 44 ; S.A.M. 46965) 317 ; Tulbagh, *v. d. Byl 775 ;* Dombashawa, *Eyles 4845* (v. d. Byl 600) ; Matopos, *v. d. Byl 164* (det. Vain.) ; Salisbury, *Eyles 2425* (S.A.M. 46936) ; slopes of Table Mt., *Krauss*.

Umbilicaria glauca Stizenb.

Stizenberger (1890) 18€, no. 478 ; Minks (1900 b) 27 ; van der Byl (1931) 11 ; Zahlbruckner (1932) 243, Cat. Lich. IV : 745.
on rocks, Table Mt., *MacOwan ;* near Ceres, *Leslie* (v. d. Byl 609) ; Stellenbosch, *Haddad*.

Umbilicaria membranacea Laur.

apud Nylander (1863) 5 ; Drège (1843) 80, 85 ; Hue (1891) 34 ; Stizenberger (1890) 186, no. 476 ; Minks (1900 b) 26 ; Zahlbruckner, Cat. Lich. IV : 746.
on rocks, du Toits Kloof, *Drège*.

Umbilicaria pustulata (Linn.) Hoffm.

f. **minor** Crombie.

Crombie (1876 a) 171 ; Hue (1891) 34 ; Stizenberger (1890) no. 475 ; Zahlbruckner, Cat. Lich. IV : 752.
on rocks, Table Mt., *Eaton ;* Garcia's Pass, Riversdale, *J. Muir 3699*, 1405.

Var. **papulosa** (Ach.) Tuck.

Zahlbruckner, Cat. Lich. IV : 752.

Umbilicaria papulosa (Ach.) Nyl., von Flotow (1843) 26 ; Krauss (1846) 200 ; Stizenberger (1890) no. 477.

on rocks, Cape of Good Hope ; slopes of Table Mt., *Krauss*.

Var. **papillata** Hampe

Stizenberger (1890) no. 475 ; Tuckermann (1882) 82.

Cape of God Hope.

Umbilicaria rugiginosa Pers.

apud Gaudich. (182c) 202 ; Nylander (1860 b) 417, (1863) 6 ; Crombie (1876 a) 171 ; Stizenberger (1890) no. 479 ; Hue (1891) 34, (1900) 14 ; Minks (1900 b) ; 26 ; van der Byl (1931) 11 ; Zahlbruckner, (1932) 243, Cat. Lich. IV : 752.

Lecidea porphyrea Meyer (1825) 54, 99 ; Sprengel (1827) 327.

Umbilicaria hottentotta Fée (1827) 194.

Umbilicaria lecanorocarpa Krempelhuber (1876) 440.

on rocks, near summit of Table Mt., *Eaton ;* Table Mt., *Breutel, Jelinek, Wawra, Wilms ;* Table Mt., *MacOwan 50*, 316 ; Stellenbosch, *Haddad & Slabbert* (v. d. Byl 710), *Hofmeyr* (v. d. Byl 446, det. Vain.) ; Ceres, *Leslie* (v. d. Byl 610, 452, det. Vain.) ; Table Mt., *Eyles* (v. d. Byl 383) ; Genadendal and Caledon, *Brunnthaler ;* without locality, *Pappe* (S.A.M. 46885).

ACAROSPORACEAE.

Acarospora angolensis H. Magn.

Magnusson (1929) 111, (1933) 16 ; Zahlbruckner, Cat. Lich. VIII : 500.

Lecanora xanthophana Nylander (1868) 513, (non loco alio).

Placodium thaeodes Müll. Arg. (1879) 290.

Lecanora thaeodes Stizenberger (1890) 234, no. 803.

Acarospora tersa var. *thaeodes* Wainio (1901) 426 ; (?) van der Byl (1931) 11.

on rocks, Serra de Montes Negros, Mossamedes, *Welwitsch 19, 44*.

(?) on granite rocks, Matopos, *v. d. Byl 153* (det. Vain.).

Acarospora austroafricana (Zahlbr.) H. Magn.

Magnusson (1933) 31.

Acarospora sulphurata Arn., var. *austroafricana* Zahlbruckner (1926 b) 502, Cat. Lich. V : 97, VIII : 516 ; Magnusson (1929) 95.

on schistose rock, Haifischinsel, off Lüderitzbucht, *Fincke*.

(?) **Acarospora bella** (Nyl.) Jatta

Acarospora tersa var. *bella* (Nyl.) Vain. van der Byl (1931) 11.

on rock, Ceres, *Leslie* (v. d. Byl 236, det. Vain.).

This seems to be a doubtful record ; fide Magnusson (1929) 61, this is a South American species.

Acarospora Bylii H. Magn.

Magnusson (1933) 36.

on hard, grey sandstone, ass. with *Parmelia* sp., between Calvinia and Middelpos, *v. d. Byl 1113*, Type.

Acarospora calviniensis H. Magn.

Magnusson (1933) 33.
on non-calciferous sandstone, between Calvinia and Middelpos, *v. d. Byl 1098*. Type.

Acarospora capensis Zahlbr.

Zahlbruckner (1926 b) 500, Cat. Lich. B : 56, VIII : 502 ; Magnusson (1929) 206, (1933) 34.
on sandstone, Matjesfontein, *Brunnthaler*, Type.

Acarospora cervina Mass.

Zahlbruckner, Cat. Lich. V : 56.
Lecanora cervina Ach., Drège (1843) 52.
on rocks, Witberg, *Drège*.

Acarospora deserticola Zahlbr.

Zahlbruckner (1926 b) 500, Cat. Lich. V : 61, VIII : 503 ; Magnusson (1929) 57, (1933) 24.
on mica schist, Matjesfontein, *Brunnthaler*, Type.

Acarospora Finckei Zahlbr.

Zahlbruckner (1926 b) 502, Cat. Lich. V : 104, VIII : 504 ; Magnusson (1929) 96, (1933) 32.
on schistose rock, Haifischinsel off Lüderitzbucht, *Fincke*, Type.

Acarospora fuscata (Nyl.) Arn.

Wainio (1901) 426 ; Zahlbruckner (1926 b) 499, Cat. Lich. V : 64, VIII : 505 ; Magnusson (1929) 294--298.
on schistose rocks, between Maiombo and Cazimba, *Welwitsch 160 pr. p. ;* on sandstone, near Windhoek, *Fincke*.
fide Magnusson, l.c., *A. fuscata* is undoubtedly the commonest species in the genus and widely distributed in the northern temperate zone. The specimens recorded from the southern hemisphere certainly do not belong here.

Acarospora immixta H. Magn.

Magnusson (1929) 82, (1933) 30 ; Zahlbruckner, Cat. Lich. VIII : 507.
on non-calciferous stone, upon thallus of *Lecidea* sp (?), Wasserberg, near Windhoek, *Fincke* (called *Ac. xanthophana* by Zahlbruckner) ; upon thallus of *Lecidea* sp., Haifischinsel, off Lüderitzbucht, *Fincke*.

Acarospora initialis H. Magn.

Magnusson (1929) 48, (1933) 17 ; Zahlbruckner, Cat. Lich. VIII : 508.
Acarospora tersa Zahlbruckner (1926 b) 501.
on smooth, non-calcareous mica-schist, Haifischinsel, off Lüderitzbucht, *Fincke*, Type.

Var. **perfectior** H. Magn.

Magnusson (1933) 18.
on a stone with granular surface, Klein Karas, *Örtendahl 37*, Type.

Acarospora insculpta H. Magn.

Magnusson (1933) 20.
on granite rocks, Uitenhage, *Marloth 116*, Type.

Acarospora intermixta H. Magn.

Magnusson (1933) 42.

on granitic stone, intermingled with yellow squamules of *Ac. Luderitzensis*, Lüderitzbucht, comm. *Hillman*, Type.

Acarospora intrusa H. Magn.

Magnusson (1933) 37.

amongst areolae of *Ac. laevigata*, apparently destroying them, Cape Province, without locality, *Marloth 132*, Type.

Acarospora laeta H. Magn.

Magnusson (1933) 22.

Acarospora Finckei var. *lobulata* Zahlbruckner (1932) 243.

on granitic, granular stone, Lüderitzbucht, *F. & R. Wettstein*, Type.

Var. **annularis** H. Magn.

Magnusson (1933) 23.

on very hard, reddish, granitic stone, Klein Karas, *Örtendahl 24*, Type.

Acarospora laevigata H. Magn.

Magnusson (1933) 17.

on non-calcareous, schistose, reddish sandstone with smooth surface, (invaded by *Ac. intrusa*) Cape Town *Marloth 132*, Type.

Acarospora longispora H. Magn.

Magnusson (1933) 34.

on calcareous rocks, Laingsberg, *v. d. Byl 1088*, Type.

Acarospora lucida H. Magn.

Magnusson (1929) 70, (1933) 29 ; Zahlbruckner, Cat. Lich. VIII : 509.

on dark granitic stone, Great Namaqualand, *Schinz* (A. Schenck 544, Type : called *Placodium xanthophanum* by Müll. Arg.).

Acarospora lüderitzensis H. Magn.

Magnusson (1933) 26.

on granitic stone (associated with *Ac. intermixta*) Lüderitzbucht, comm. *J. Hillman ;* between Khamiskron and Springbok, *v. d. Byl 1171*, Type.

Acarospora macrospora (Hepp.) Bagl.

Magnusson (1929) 333.

Lecanora smaragdula Nyl., Stizenberger (1890) no. 812 ; Crombie (1876 a) 174.

on rocks, Table Mt., *Eaton, Jelinek.*

Doubtful record : fide Magnusson, l.c., this species has its principal area of distribution in the mountainous regions of central and southern Europe. He quotes no records from the southern hemisphere.

Acarospora meridionalis H. Magn.

Magnusson (1933) 27 ; Zahlbruckner (1932) 244.

on non-calcareous, schistose, sandy or ganitic stone, Steinkopf, *Meyer*, Type (v. d. Byl 949, 951 : nos. 948, 953 in Zahlbr. l.c.) ; Klein Karas, *Örtendahl 13 ;* between Bitterfontein and Garies, *v. d. Byl 1176 ;* near Kenhardt, *v. d. Byl 1116.*

Acarospora negligens H. Magn.

Magnusson (1933) 18.
on schistose, reddish sandstone, Narubis, *Örtendahl 96, 97 ;* Airas, Klein Karas, *Örtendahl 105 ;* near Laingsburg, *v. d. Byl 1090.*

Acarospora ochrophaea H. Magn.

H. Magnusson (1933) 38.
on non-calciferous stone, Van Rhynsdorp, *v. d. Byl 1183,* Type.

Acarospora Örtendahlii H. Magn.

Magnusson (1933) 28.
on reddish brown, hard granitic stone, on road between Aiais and Klein Karas. *Örtendahl 102, 108,* Type ; Klein Karas, *Örtendahl* 2.

Acarospora perexigua (Müll. Arg.) Hue.

Hue (1909) 162 ; Magnusson (1929) 374 ; Zahlbruckner, Cat. Lich. V : 83.
Placodium perexiguum Müll. Arg., J. Müller-Arg. (1893 b) 297.
Lecanora perexigua Stizenberger (1895) no. 242.
on quartzite rocks, near Boroma, *Menyharth 297* : not an Acarospora, fide Magnusson l.c.

Acarospora porinoides (Stizenb.) Zahlbr.

Magnusson (1929) 374 ; Zahlbruckner, Cat. Lich. V : 84.
Lecanora porinoides Stizenberger (1890) 234, no. 807.
on rocks, Taaiboschkranz, near Rhenoster-rivier, O.F.S., *Rehmann* : " seems to be an *Aspicilia* sp.", Magnusson l.c.

Acarospora Rhodesiae H. Magn.

Magnusson (1933) 21.
on granitic stone, Bullawayo, *Brunnthaler,* Type.

Acarospora socialis H. Magn.

Magnusson (1933) 30.
near Calvinia, *v. d. Byl 1131,* Type.

Acarospora Steineri H. Magn.

Magnusson (1933) 24.
on schistose, rather hard stone, Haifischinsel, *Fincke,* Type (Vienna sub *Ac. sulphurata* var. *austro-africana,* but not the authentic specimen).

Acarospora subbadia H. Magn.

Magnusson (1933) 40 ; Zahlbruckner (1932) 244.
on non-calcareous rock, Steinkopf, *Meyer* (v. d. Byl 951, Type, 949), associated with *Ac. meridionalis* and *Caloplaca* sp.

Acarospora subochracea H. Magn.

Magnusson (1933) 39 ; Zahlbruckner (1932) 244.
on non-calciferous, closely granular rock, Calvinia, *v. d. Byl 768,* Type.

Acarospora subtersa H. Magn.

Magnusson (1929) 54, (1933) 25 : Zahlbruckner (1932) 243. Cat. Lich. VIII : 516.
sub *Acarospora citrina* Zahlbruckner (1926 b) 501 : see Magnusson (1929) 50.
Acarospora tersa Zahlbruckner (1926 b) 501, pr. p.
on non-calciferous, schistose stone. Haifischinsel, off Lüderitzbucht. *Fincke* Waterberg, near Windhoek, *Fincke ;* on sandstone rocks, Mossel Bay, *v. d. Byl 746.*

Acarospora tenuis (Wain.) H. Magn.

Magnusson (1929) 50, (1933) 16 ; Zahlbruckner, Cat. Lich. VIII : 517.
Acarospora tersa (Fr.) Steiner var. *tenuis* Wainio (1901) 426 : Hue (1909) 120 : van der Byl (1931) 11 ; Zahlbruckner, Cat. Lich. V : 98.
Lecanora tersa Nylander (1868) 513 (see Wainio l.c.).
on perpendicular rocks, between Maiombo and Cazimba, on the road to Huilla. *Welwitsch 17 pr. p., 18. 160 pr. p. ;* on schistose rocks, Serra de Cazimba, between Maiombo and Pomangula. *Welwitsch 185 pr. p.* : on rocks, Hanover, Cape, *v. d. Merwe* (v. d. Byl 432, det. Vain.).

Acarospora thaeodes Massal.

Massalongo (1861) 87 : Zahlbruckner (1926 c) Pl. S. f. 6-10 : Magnusson (1929) 112.
Acarospora tersa var. *thaeodes* Zahlbruckner, Cat. Lich. V : 98 pr. p.
on volcanic rocks, Cape, *Wawra* : doubtful species, fide Magnusson l.c.

Acarospora xanthophana (Nyl.) Jatta

Magnusson (1933) 31.
on granitic stone, Klein Karas, *Örtendahl 19. 55 ;* Upington, *v. d. Byl 1158.*

Biatorella Armstrongiae (Jones) Zahlbr.

Zahlbruckner, Cat. Lich. V : 34.
Lecidea Armstrongiae Jones apud Nylander (1869 a) 12 : Hue (1891) 128, (1892) 147.
Lecanora Armstrongiae Stizenberger (1890) 222, no. 729.
on bark, Durban, *Armstrong.*

Biatorella austroafricana Zahlbr.

Zahlbruckner (1926 b) 499, Cat. Lich. V : 10.
Sarcogyne austroafricana (Zahlbr.) H. Magnusson (1937) 103.
on sandstone, Haifischinsel, off Lüderitzbucht, and near Windhoek, *Fincke*, Type.

Biatorella clavulus (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 10.
Lecanora clavulus Stizenberger (1890) 237, no. 822.
Sarcogyne clavulus (Stizenb.) H. Magnusson (1937) 98.
on sandstone rocks, Muizenberg, *MacOwan*, Type.

Biatorella lugens (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 14.
Lecanora lugens Stizenberger (1890) 236, no. 818.
Sarcogyne lugens (Stizenb.) H. Magnusson (1937) 102.
on granite, Lion's Head, *MacOwan*, Type.

Biatorella palmeti (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 44.
Lecidea palmeti Stizenberger (1891) 149, no. 1037.
on woody parts of **Phoenix dactylifera** Linn., in bush, near Durban, *Wilms*, Type.

Biatorella robiginans (Stizenb.) Zahlbr

Zahlbruckner, Cat. Lich. V : 21.
Lecanora robiginans Stizenberger (1890) 237, no. 821.
Sarcogyne robiginans (Stizenb.) H. Magnusson (1937) 101.
on sandstone rocks, near Muizenberg, *MacOwan*, Type.

Maronea constans (Nyl.) Hepp

Zahlbruckner, Cat. Lich. V : 48 ; Magnusson (1934) 55.
Lecanora constans Nylander (1869 a) 8 ; Stizenberger (1890) no. 745.
on bark, Durban, *Armstrong*.

Maronea crassilabra (Müll. Arg.) H. Magn.

Magnusson (1929) 326, (1934) 60.
Acarospora crassilabra (Müll. Arg.) Zahlbruckner, Cat. Lich. V : 60.
Lecanora crassilabra Müll. Arg., J. Müller (Arg.) 1888 : 205 ; Stizenberger (1890) no. 746.
on bark, near Lydenburg, *Wilms*.

Maronea horizoides (Müll. Arg.) Wain.

Wainio (1901) 404 ; Zahlbruckner, Cat. Lich. V : 49 ; Magnusson (1934) 62.
on trunk of **Parinarium,** Morro de Lopollo, *Welwitsch*.

PERTUSARIACEAE.

Pertusaria alpina Hepp

Zahlbruckner, Cat. Lich. V : 120.
Pertusaria leioplaca (Ach.) DC. var. *octospora* Nyl., Crombie (1876 a) 175 ; Stizenberger (1890) no. 859 ; Nylander (1869 a) 8.
on bark, Table Mt., *Eaton ;* Durban, *Armstrong*.

Pertusaria amara (Ach.) Nyl.

apud Crombie (1876 a) 174 ; Stizenberger (1890) no. 850 ; Zahlbruckner, Cat. Lich. V : 121.
on rocks, Table Mt., *Eaton ;* near Lydenburg, *MacLea*.

Var. **capensis** Steiner

Steiner (1907) 646.
on bark, Mt. Mamotsuiri, *Junod 998 pr. p.*

Pertusaria ambigens (Nyl.) Tuck.

Tuckerman (1877) 176, (1882) 213 ; Stizenberger (1890) no. 882 ; Zahlbruckner, Cat. Lich. V : 123.
on bark and rocks, Boschberg, *MacOwan 526*, 115 ; without locality, *Zeyher*, *Wright*.

Pertusaria aperta Stizenb.

Stizenberger (1890) 241, no. 849 ; Zahlbruckner, Cat. Lich. V : 233.
on rocks, Muizenberg, *MacOwan*.

Pertusaria casta Zahlbr.

Zahlbruckner (1936) 172.
on bark, Knysna, *v. d. Byl 861*, Type.

Pertusaria coccodes Nyl.

Zahlbruckner, Cat. Lich. V : 130.
Pertusaria ceuthocarpa Fr., Stizenberger (1890) no. 856.
on bark, Table Mt., *Wilms*.

Pertusaria commutans Vain.

Vainio (1926) 4 ; van der Byl (1931) 11 ; Zahlbruckner, Cat. Lich. VIII : 520.
on bark of **Ochna** sp., Knysna, *v. d. Byl 282*, Type.

Pertusaria coriacea Th., Fr. var. **obducens** Zahlbr.

Zahlbruckner, Cat. Lich. V : 139.
Pertusaria obducens Nyl., van der Byl (1931) 12.
on tree, Umtali, *Eyles 4257* (v. d. Byl 575, det. A. L. Sm.).

Pertusaria cryptostoma Müll. Arg.

J. Müller-Arg. (1888) 206 ; Stizenberger (1890) no. 868 ; Wainio (1900 a) 9 ; Zahlbruckner, Cat. Lich. V : 142.
on bark, near Lydenburg, *Wilms*, Type.

Pertusaria Diaziana Massal.

Massalongo (1861) 77 ; Stizenberger (1890) no. 861 ; Zahlbruckner, Cat. Lich V : 145.
on sandstone rocks, top of Table Mt., *Wawra, MacOwan*.

Pertusaria dispersa Vain.

Vainio (1926) 4 ; van der Byl (1931) II : Zahlbruckner, Cat. Lich. VIII : 521.
on bark of **Ocotea bullata** E. Mey., Knysna, *v. d. Byl 266*, Type.

Pertusaria duplicata Wain.

Wainio (1900 a) 11 ; Zahlbruckner, Cat. Lich. V : 146.
Pertusaria variolosa Müll. Arg. J. Müller-Arg. (1893 d) 126, (non Wainio ex anno 1890) ; Stizenberger (1895) no. 877*bis*.
on bark, South Africa, without locality, *MacOwan*, Kew.

Pertusaria elatior Stirt.

Stirton (1877) 216 ; Stizenberger (1890) no. 883 ; Zahlbruckner, Cat. Lich. V : 147.
on bark, Boschberg, *MacOwan*, Type.

Pertusaria enterostigmoides Zahlbr.

Zahlbruckner (1936) 171.
on ? bark, between Calvinia and Middelpos (*v. d. Byl 1104*,) Type.

Pertusaria euglypta Tuckerm.

Tuckerman (1877) 177, (1888) 149 ; Stizenberger (1890) no. 865 ; Zahlbruckner Cat. Lich. V : 148.
on granite rocks, Cape, *Wright.*

Pertusaria eyelpistia Massal.

Massalongo (1861) 79 ; Zahlbruckner, Cat. Lich. V : 148.
on rocks, Cape of Good Hope, *Wawra.*

Pertusaria flavens Nyl.

van der Byl (1931) 11 ; Zahlbruckner, Cat. Lich. V : 151.
on bark, Klapmuts, *v. d. Byl 95* (det. Vain.) ; Zululand, *Harris* (v. d. Byl 232 pr. p., det. Vain.

Pertusaria flavicunda Tuckerm.

Stizenberger (1890) no. 862 ; Zahlbruckner, Cat. Lich. V : 238.
on calcareous and granite rocks, Warm Bokkeveld, near Ceres, *MacOwan.*

Pertusaria granulata (Ach.) Müll. Arg.

Zahlbruckner, Cat. Lich. V : 157.
Trypethelium verrucosum Fée, von Flotow (1843) 22.
Pertusaria verrucosa Fée f. *oligopyrena* Wallr., von Flotow l.c. ; Krauss (1846) 200.
on bark of trees, near Constantia, *Krauss.*

Var. **variolarioides** Flotow.

von Flotow (1843) 23 ; Krauss (1846) 200 ; Zahlbruckner, Cat. Lich. V : 157.
on bark of tree, near Constantia, *Krauss.*

Pertusaria inquinata (Ach.) Th. Fr.

Stizenberger (1890) no. 884 ; Zhalbruckner, Cat. Lich. V : 239.
on sandstone rocks, Table Mt., *MacOwen.*

Pertusaria laevigata Arn.

Zahlbruckner, Cat. Lich. V : 163.
Pertusaria laevigata var. *laevigata* Steiner (1907) 646.
on bark, Mt. Mamotsuiri, *Junod 998 pr. p.*

Pertusaria leioplaca (Ach.) DC.

Nylander (1869 a) 8 ; Stizenberger (1890) no. 859 ; Zahlbruckner, Cat. Lich. V : 164.
on bark, Durban, *Armstrong ;* Cape, without locality.

Var. **pycnocarpa** Nyl.

Stizenberger (1890) no. 859 ; Zahlbruckner, Cat. Lich. V : 169.
on bark, near Lydenburg.

Pertusaria leioplacella Nyl.

Stizenberger (1890) no. 881 ; Zahlbruckner, Cat. Lich. V : 170.
on bark of a pomiferous tree, near Lydenburg, *Wilms.*

Pertusaria leonina Stizenb.

Stizenberger (1890) 242, no. 857 ; van der Byl (1931) 11 ; Zahlbruckner, (1932) 244, Cat. Lich. V : 170.

on granite and on sandstone rocks, Lion's Head and Table Mt., *MacOwan* ; on rocks, Grey's Pass, Citrusdal, *v. d. Byl 767* ; Botany Bay, *v. d. Byl 987* ; Glencairn, *v. d. Byl 981* ; van Rhyn's Pass, *v. d. Byl*.

Pertusaria leucosoroides Nyl.

van der Byl (1931) 11 ; Zahlbruckner, Cat. Lich. V : 172.

on stone, Sarnia, *Hean*, (*v. d. Byl 298, 299, 303, 304, 305, 308, 312, 314, 316 pr. p.* det. Vain.).

Pertusaria limosa Zahlbr.

Zahlbruckner (1936) 171.

on bark of **Fraxinus** sp., Stellenbosch, *v. d. Byl 822*, Type.

Pertusaria mamillana Müll. Arg.

J. Müller-Arg. (1893 b) 298 ; Wainio (1900 a) 9 ; Zahlbruckner, Cat. Lich. V : 175.

on bark, near Boroma, *Menyharth 474*, Type.

Pertusaria melaleuca (Turn. & Borr.) Duby.

Stizenberger (1890) no. 871 ; Zahlbruckner (1926 b) 503, (1932) 244, Cat. Lich. V : 176.

on bark, Cape, *Zeyher* ; on **Portulacaria afra** Jacq., Zwartkops, near Port Elizabeth, *Brunnthaler*

Pertusaria melanospora Nyl.

Stizenberger (1890) no. 886 ; Zahlbruckner, Cat. Lich. V : 179.

on sandstone rocks, Table Mt., *MacOwan*.

Pertusaria microthelia Wain.

Wainio (1901) 405 ; Zahlbruckner, Cat. Lich. V : 180.

on rocks, near cataract of Lopollo, *Welwitsch 5* ; near cataract, near Fazendo do Ferrao, *Welwitsch 47*.

Pertusaria multiplicans Vain.

Vainio (1926) 6 ; van der Byl (1931) 11 ; Zahlbruckner, Cat. Lich. VIII : 523.

on bark of **Quercus** sp., Cape Town, *Eyles*, Type (v. d. Byl 388, det. Vain.).

Pertusaria nivea Merrill

van der Byl (1931) 11, non Fries, nom. nud.

on trunk of **Quercus** sp., Klapmuts, *v. d. Byl 104* (det. Merrill) ; on trunk of **Ficus** sp., Klapmuts, *v. d. Byl 89* (det. Merrill).

Pertusaria orbiculata (Schreb.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 187.

Variolaria disccidea Pers., Drège (1843) 80, 134.

on ? bark, du Toits Kloof, *Drège* ; Hofmanskloof, between Enon and Zuureberge, *Drège*.

Pertusaria pustulata (Ach.) Duby

Stizenberger (1890) no. 370 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. V : 207.

on bark, Cape, *Zeyher*, *Breutel* ; on bark of **Pandanus** sp., Berea, Durban, *v. d. Byl 22* (det. A. L. Sm.).

Pertusaria rhodesica Vain.

Vainio (1926) 5 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. VIII : 524.

on granite rock, Matopos, *v. d. Byl 155*, Type.

Pertusaria spaniostoma Vain.

Vainio (1926) 5 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. VIII : 524.

on bark of leafy tree, Elsenburg, *v. d. Byl 242*, Type.

Pertusaria subdealbata Nyl.

Crombie (1876 a) 175, (1876 b) 20 ; Hue (1891) 83 ; Stizenberger (1890) no. 858 ; Zahlbruckner, Cat. Lich. V : 215.

on rocks, Table Mt., *Eaton*, Type.

Pertusaria subvelatula Vain.

Vainio (1926) 3 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. VIII : 525.

on bark of **Acacia mollissima** Willd., near Howick, *v. d. Byl 203*, Type.

Pertusaria thiostoma Nyl.

Nylander (1890) 54 ; Stizenberger (1890) 244, no. 872 ; Hue (1891) 85 ; Zahlbruckner, Cat. Lich. V : 222.

on bark of a tree of the family Malvaceae, near Durban, *Wilms*, Type.

Pertusaria tropica Wain.

Wainio (1901) 404 ; Zahlbruckner, Cat. Lich. V : 245.

on bark of **Tarchonanthus** sp., at top of mountain, Serra de Xella, *Welwitsch* 7.

Pertusaria trypetheliiformis Nyl.

Zahlbruckner, Cat. Lich. V : 223.

Pertusaria leioplaca var. *trypetheliiformis* Nylander (1869 a) 7 ; Stizenberger (1890) no. 859.

on bark, Durban, *Armstrong* ; Table Mt., *MacOwan*.

Pertusaria velata (Turn.) Nyl.

Stizenberger (1890) no. 851 ; J. Müller-Arg. (1893 b) 298 ; van der Byl (1931) 12 ; Zahlbruckner (1932) 24, Cat. Lich. V. : 246.

on bark, Cape of Good Hope, *Sieber*, *Wilms* ; Boroma, *Menyharth 262* ; on bark of **Trichocladus crinitus** Pers., Hoofbos, Knysna, *v. d. Byl 654*.

Pertusaria vepallida Nyl.

apud Crombie (1876 a) 175, (1876 b) 20 ; Hue (1891) 87 : Stizenberger (1890) no. 887 ; Zahlbruckner, Cat. Lich. V : 224.

on rocks, Table Mt., *Eaton*, Type.

Pertusaria Wawreana Massal.

Massalongo (1861) 78 ; Stizenberger (1890) no. 855 ; Zahlbruckner, Cat. Lich. V : 249.

on quartzite rocks, Cape of Good Hope, *Wawra, MacOwan.*

Pertusaria Wawreanoides Nyl.

apud Crombie (1876 a) 174, (1876 b) 20 ; Stizenberger (1890) no. 855 ; Hue (1891) 83 ; Zahlbruckner (1932) 244, Cat. Lich. V : 249.

on rocks, Table Mt., *Eaton, Jelinek, MacOwan ;* Lion's Head, *MacOwan ;* Muizenberg, *MacOwan ;* on quartz rocks, Bloukransrivier, *v. d. Byl 663.*

Pertusaria Wilmsii Stizenb.

Stizenberger (1890) 244, no. 869 ; Nylander (1890) 51 ; Hue (1891) 82 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. V : 225.

on bark of a tree of the family Malvaceae, Durban, *Wilms*, Type ; on trunk of **Quercus** sp., Klapmuts, *v. d. Byl 132, 144* (det. Vain.) ; Stellenbosch, *v. d. Byl 238* (det. Vain.) ; Elsenburg, *v. d. Byl 244* (det. Vain.) ; on trunk of **Ficus** sp., Klapmuts, *v. d. Byl 127* (det. Vain.) ; on trunk of **Strychnos** sp., Matopos, *v. d. Byl 183 ;* (det. Vain.).

Pertusaria xanthomelaena Müll. Arg.

J. Müller-Arg. (1888) 207 ; Stizenberger (1890) no. 867 ; Wainio (1900 a) 10 ; Zahlbruckner, Cat. Lich. V : 231.

on bark, Table Mt., *Wilms*, Type.

Pertusaria xanthothelia Müll. Arg.

J. Müller-Arg. (1890) 343, (1893 b) 298 ; Wainio (1900 a) 9 ; Zahlbruckner Cat. Lich. V : 232.

on bark, Boroma, *Menyharth 261.*

LECANORACEAE.

Candelariella elaeophaea (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 794.

Lecanora elaeophaea Nyl. ex Crombie (1876 a) 173, (1876 b) 20 ; Hue (1891) 58 Stizenberger (1890) no. 641.

on rocks, Table Mt., *Eaton*, Type.

Candelariella glaucolivescens (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 795.

Lecanora glaucolivescens Nyl. apud Crombie (1876 a) 173, (1876 b) 20 ; Hue (1891) 58 ; Stizenberger (1890) no. 642.

on rocks, Table Mt., *Eaton.*

Candelariella vitellina (Ehrht.) Müll. Arg.

Zahlbruckner, Cat. Lich. V : 803.

Lecanora vitellina Ach., Stizenberger (1890) no. 636 ; Nylander (1868) 6 ; Wainio (1901) 402.

on calcareous rocks near cataract, ? Ferrao da Sola, Huilla, *Welwitsch.*

f. **athallina** (Wedd.) Zahlbr.

Zahlbruckner (1932) 251, Cat. Lich. V : 808.

van Rhyn's Pass, van Rhynsdorp, *v. d. Byl 765 pr. p.*

Haematomma coccineum (Dicks.) Körb. var. **porphyricum** (Pers.) Th. Fr.

van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. V : 763.

on rock, Salisbury, *Eyles 4819.*

Haematomma Fenzlianum Massal.

Massalongo (1861) 58 ; Zahlbruckner, Cat. Lich. V : 767.

Lecanora Fenzzlianza Stizenberger (1890) 229, no. 770.

on rocks, (?) Cape, *Wawra.*

It is not clear whether this species was found at the Cape, or only on Ascension Is.

Var. **pulvinare** Zahlbr.

Zahlbruckner (1932) 250.

on quartz rocks, Lüderitzbucht, *F. & R. Wettstein.*

Haematomma puniceum (Sw.) Massal.

Zahlbruckner (1926 b) 505, (1932) 250, Cat. Lich. V : 768 ; van der Byl (1931) 12. *Lecanora punicea* Ach., Drège (1843) 85, 132, 134, 141 ; von Flotow (1843) 21 ; Krauss (1846) 201, Stizenberger (1890 & 1895) no. 771.

Lecania punicea Müll. Arg., J. Müller-Arg. (1891 b) 297 ; Schinz (1901) 394.

on bark of **Acacia** sp., near Knysna, *v. d. Byl 915 ;* on **Bruguiera gymnorhiza** Lam., Durban, *v. d. Byl 143* (det. Vain.) ; on **Erythrina caffra** Thunb., Mayville, *v. d. Byl 77 pr. p.* (det. A. L. Sm.) ; on **Euphrobia Ledienii** Berger, Zwartkops, *Brunnthaler ;* on **Portulacaria afra** Jacq., Zwartkops, *Brunnthaler ;* on **Quercus** sp., Elsenburg, *v. d. Byl 243* (det. Vain.) ; on bark of trees undet., near Boroma, *Menyharth 254, 255, 468 ;* Lydenburg, *Neethling* (v. d. Byl 1052, 1054) ; Salisbury, *v. d. Byl 606 ;* Onrust, *v. d. Byl 326 pr p., 327* (det. Vain.) ; near Constantia, *Krauss ;* Paarlberg, *Drège ;* Saamteesvlakte, nr. Enon, *Drège ;* ' Glenfilling ', *Drège ;* Hoffmanskloof, between Enon and Zuureberg *Drège.*

Var. **africanum** Steiner

Steiner (1907) 641 ; Zahlbruckner, Cat. Lich. V : 770.

on bark, Mt. Mamotsuiri, *Junod 993 pr. p.*, Type.

Var. **breviculum** (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 770.

Lecanora punicea Ach. var. *brevicula* Stizenberger (1890) 229, no. 771 ; van der Byl (1931) 12, as var. *brevicaule* Stizenb.

on bark of trees on hills round Maritzburg, *Rehmann,* Type ; on trunk of **Pandanus** sp. Durban, *v. d. Byl 32* (det. A. L. Sm.)

Var. **collatum** (Stirt.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 770.

Lecanora punicea var. *collata* Stirton (1877) 216.

on bark, Boschberg, *MacOwan,* 49, Type.

Var. **rufidulum** Zahlbr.

Zahlbruckner (1932) 250, Cat. Lich. V : 771.

Haematomma puniceum f. *rufo-pallens* Wain., van der Byl (1931) 12.

on bark of **Canthium** sp., Brenton, Knysna, *v. d. Byl 651 ;* on **Rapanea melanophleos** Mez. Knysna, *v. d. Byl.*

Var. **subarthonioideum** Zahlbr.
Zahlbruckner (1932) 250.
on quartzite rocks, Caledon, *Brunnthaler*, Type.

Icmadophila ericetorum Zahlbr.
Zahlbruckner, Cat. Lich. V : 705.
Lecidea icmadophila Ach., Drège (1843) 80, 85, 88.
on soil and old wood, du Toits Kloof, *Drège* ; Paarlberg, *Drège* ; in krantzes, Table Mt., *Drège*.

Lecania arenaria (Anzi) Flagey
Zahlbruckner, Cat. Lich. V : 715.
Lecanora arenaria Nyl., Stizenberger (1890) no. 663.
on crumbling granite rocks, northern slopes of Lion's Head, *MacOwan*.

Lecania cyrtella Th. Fr.
Zahlbruckner, Cat. Lich. V : 719.
Lecidea anomala Ach., Drége (1843) 134.
on trees, Hoffmanskloof, between Enon and Zuureberge, *Drège*.

Lecania fructuosa (Stizenb.) Zahlbr.
Zahlbruckner, Cat. Lich. V : 732.
Lecanora fructuosa Stizenberger (1890) 226, no. 755.
on hard rocks, granite and sandstone, top of Lion's Head, *MacOwan*, Type.

Lecanora albospersa Stizenb.
Stizenberger (1890) 228, no. 761 ; Zahlbruckner, Cat. Lich. V : 371.
on quartzite rocks, Warm Bokkeveld near Ceres, *MacOwan*, Type.

Lecanora allophana (Ach.) Röhl.
van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. V : 371.
Lecanora subfusca (L.) Ach. var. *allophana* Ach., J. Müller-Arg. (1893 b) 297.
on bark, near Boroma, *Menyharth 270* ; on **Erythrina caffra** Jacq., Mayville, *v. d. Byl 77 pr.p.* (det. A. L. Sm.).

Var. **glabrata** (Ach.) Steiner
Zahlbruckner (1932) 246, Cat. Lich. V : 373.
Lecanora subfusca var. *glabrata* Ach., J. Müller-Arg. (1893 b) 297.
on bark, near Boroma, *Menyharth 254, 262, 264, 272* ; on bark of **Quercus** sp., Genadendal near Caledon, *Brunnthaler*.

Lecanora aspera Stizenb.
Stizenberger (1890) 213, no. 674 ; Zahlbruckner, Cat. Lich. V : 607.
on granite rocks, Lion's Head and Table Mt., *MacOwan*, Type.

Lecanora atra (Hudson) Ach.
Drège (1843) 85, 134 ; von Flotow (1843) 23 ; Krauss (1846) 201 ; Stizenberger (1890) no. 758 ; Zahlbruckner (1932) 245, Cat. Lich. V : 378.
on bark and rocks, Cape, *Zeyher* ; on sandstone rocks, Matjesfontein, *Brunnthaler* ; on quartzite rocks, Glencairn, *v. d. Byl 1004* ; Lion's Head, *Drège* ; Paarlberg, *Drège* ; Hoffmanskloof, between Enon and Zuureberg, *Drège*.

Var. **americana** Fée

Wainio (1901) 403 ; Zahlbruckner, Cat. Lich. V : 384.
on trunks of **Parinarium** sp., in high mountains, Morro de Lopollo, *Welwitsch 38.*

Lecanora atraeformis Vain.

apud Lynge (1937) 82.
on bark of **Acacia mollissima** Willd., Howick, van der Byl 201, Type.

Lecanora atrorimata Nyl.

apud Crombie (1876 a) 174 ; Hue (1891) 70 ; Stizenberger (1890) no. 759 ; Zahlbruckner, Cat. Lich. V : 388
on rocks, Table Mt., *Eaton*, Type.

Lecanora atrosulphurea Ach.

Stizenberger (1890) no. 730 ; Zahlbruckner, Cat. Lich. V : 388.
Lecideola flavescens Massalongo (1861) 90.
crumbling granite rocks, Lion's Head, *MacOwan ;* Cape of Good Hope, *Drège 9244.*

f. **leptococca** Stizenb.

Stizenberger (1890) 222, no. 730 ; Zahlbruckner, Cat. Lich. V : 389.
on rocks, Muizenberg, *MacOwan.*

f. **livens** Stizenb.

Stizenberger (1890) 222, no. 730 ; Zahlbruckner, Cat. Lich. V : 389.
on rocks, summit of Lion's Head, *MacOwan.*

Lecanora badia Ach. var. **cinerascens** Flotow

Zahlbruckner, (1932) 246, Cat. Lich. V : 396.
on gneiss rocks, Table Mt., opposite Camps Bay, *Brunnthaler.*

Lecanora bicincta Ram.

Stizenberger (1895) no. 713 *bis ;* Zahlbruckner, Cat. Lich. V : 398.
South Africa, without locality.

Lecanora blanda Nyl.

Zahlbruckner (1932) 245, Cat. Lich. V : 399.
on rocks, Waterfall, Knysna, *v. d. Byl 927 ;* Gouritzrivier, *v. d. Byl 831.*

Lecanora bogotana Nyl.

Stizenberger (1890) no. 701 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. V : 399.
as *Lecanora chlarona* var. *bogotana* (Nyl.) Vain. in Herb. van der Byl.
on rocks, Lebombo Mts., *Wilms ;* near Durban, *Wilms ;* on bark of **Quercus** sp., Klapmuts, *v. d. Byl 135 ;* Stellenbosch, *v. d. Byl 239* (det. Vain.) ; om **Ficus elastica** Roxb., Knysna *v. d. Byl 273, 274* (det. Vain.)'

Lecanora Breuteliana Massal.

Massalongo (1861) 88 ; Zahlbruckner, Cat. Lich. V : 400.
on branches of trees . Cape of Good Hope, *Breutel* (Type ex Herb. Hampe).

Lecanora Bylii Vain.

Vainio (1926) 2 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. VIII : 526.
on stones, Sarnia, *Hean* (v. d. Byl 316 pr. p., 318, Type).

Lecanora Bylii Zahlbr.

Zahlbruckner, (1932) 248, non Vainio.
on quartz rocks, Poole's Bay, *v. d. Byl 799, 800.*

Lecanora caesiopallens Vain.

apud Lynge (1937) 82.
on bark of **Ocotea bullata** E. Mey., Knysna, *v. d. Byl 262*, Type.

Lecanora cancriformis (Hoffm.) Wain.

Zahlbruckner, Cat. Lich. V : 401.
Lecanora caesiorubella Ach., Stizenberger (1890) no. 707 ; J. Müller-Arg. (1893) 297.
on bark, near Lydenburg, *Wilms* (Lojka Lichenoth. 78) ; near Boroma, *Menyharth 259.*

Lecanora candidata Stizenb.

Stizenberger (1890) 214, no. 678 ; Zahlbruckner, Cat. Lich. V : 608.
on rocks, Lion's Head, *MacOwan*, Type.

Lecanora carneoflava Müll. Arg.

J. Müller-Arg. (1888) 205 ; Stizenberger (1890) no. 743 ; Zahlbruckner, Cat. Lich. V : 402.
on bark, near Lydenburg, *Wilms*, Type.

Lecanora carpinea (Linn.) Wain.

Zahlbruckner, Cat. Lich. V : 402.
Lecanora angulosa Ach., Stizenberger (1890) no. 706.
Lecanora albella f. *angulosa* (Ach.) Nylander (1869 a) 8.
on bark, Durban, *Armstrong.*

Lecanora cateiloides Vain.

Vainio (1926) 2 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. VIII : 533.
on tree trunk, near Howick, *v. d. Byl 218*, Type.

Lecanora chlarona (Ach.) Nyl.

Stizenberger (1890) no. 693 ; van der Byl (1931) 12 ; Zahlbruckner, (1926 b) 503, (1932) 246, Cat. Lich. V : 413.
on trunks of trees, Cape of Good Hope ; Natal, *Rehmann ;* near Lydenburg, *Wilms ;* Klapmuts, *v. d. Byl 97* (det. Merrill.) : Maritzburg, *v. d. Byl 59* (det. A. L. Sm.) ; Tradouw's Pass, Ladismith, *v. d. Byl 360* (det. Vain.) : Howick, *v. d. Byl ;* on **Portulacaria afra** Jacq., Zwartkops near Port Elizabeth, *Brunnthaler ;* **Prunus salicina** Lindl., Hopefield, *v. d. Byl 145* (det. Vain.) ; on **Quercus** sp., Paarl Distr., *v. d. Byl 87* (det. Merrill).

f. **geographica** Nyl.

Stizenberger (1890) no. 693 ; Zahlbruckner, Cat. Lich. V : 415.
on bark, Cape, *Breutel.*

f. **pinastri** Cromb.

Stizenberger (1890) no. 693 ; Zahlbruckner, Cat. Lich. V : 416.
on bark of **Thuja orientalis** Linn., Botanical Gardens, Cape Town, *MacOwan.*

Lecanora chlarotera Nyl.

Stizenberger (1891) no. 694*bis* ; Zahlbruckner, Cat. Lich. V : 418.
on bark of **Quercus** sp., near Muizenberg, *MacOwan* (in Herb. Stizenb.).

Lecanora chondroplaca Zahlbr.

Zahlbruckner (1932) 244.
on sandstone rocks, near Matjesfontein, *Brunnthaler.*

Lecanora cinefacta Stizenb.

Stizenberger (1890) 223, no. 731 ; Zahlbruckner, Cat. Lich. V : 419.
on granite rocks, Lebombo Mts., *Wilms*, Type.

Lecanora cinerea Röhl.

Zahlbruckner, Cat. Lich. V : 278.
Urceolaria cinerea Ach., Drège (1843) 86.
on rocks, Paarlberg, *Drège.*

Lecanora coarctata Ach.

Stizenberger (1890) no. 794 ; Zahlbruckner, Cat. Lich. V : 419.
on ground, near Lydenburg, *Wilms.*

f. **cotaria** Ach.

Stizenberger (1890) no. 794 ; Zahlbruckner, Cat. Lich. V : 422.
on sandstone rocks, Lion's Head, *MacOwan.*

f. **fulgiana** Zahlbr.

Zahlbruckner, Cat. Lich. V : 422.
Lecanora coarctata f. *argilliseda* Duf., Stizenberger (1890) no. 794.
on clay soil, Spitzkop near Lydenburg, *Wilms.*

var. **fossulans** Stizenb.

Stizenberger (1890) 233, no. 794 ; Zahlbruckner, Cat. Lich. V : 425.
on sandstone rocks, Spitzkop, near Lydenburg, *Wilms*, Type.

Lecanora coilocarpa Nyl.

Stizenberger (1890) no. 694 ; Zahlbruckner, Cat. Lich. V : 428.
on wood, in Bot. Gard., Cape Town, *MacOwan ;* on rocks, near Lydenburg, *Wilms.*

Lecanora cruda Stizenb.

Stizenberger (1890) 222, no. 728 ; Zahlbruckner, Cat. Lich. V : 439.
on bark of pomiferous trees, Lydenburg, *Wilms*, Type.

Lecanora deminuta (Müll. Arg.) Stizenb.

Stizenberger (1890) no. 535 ; Zahlbruckner, Cat. Lich. V : 619.
Placodium deminutum Müll. Arg., J. Müller-Arg. (1888) 204.
on rocks, near Lydenburg, *Wilms*, Type.

Lecanora diffusilis Nyl.

apud Crombie (1876 a) 174, (1876 b) 20 : Hue (1891) 70 : Stizenberger (1890) no. 760 (ex errore *L. diffusibilis*) : Zahlbruckner, (1932) 245, Cat. Lich. V : 440.
on rocks, Table Mt., *Eaton*, Type : Botany Bay, *v. d. Byl 922* : Gouritzrivier, *v. d. Byl 825, 832*.

Lecanora dispersa (Pers.) Röhl.

Zahlbruckner, Cat. Lich. V : 440.
f. **nana** Vain., van der Byl (1931) 12, ? nom. nud.
on stone, Stellenbosch, *v. d. Byl 254* (det. Vain.).

f. **testacea** Vain. in Herb. van der Byl., ? nom. nud.
on old wood, Hopefield, *v. d. Byl 339* (det. Vain.).

Lecanora elapheia Stizenb.

Stizenberger (1890) 220, no. 712 ; Zahlbruckner, Cat. Lich. V : 447.
on bark, Cape of Good Hope, *MacOwan*, Type.

Lecanora epichlora Vain.

Vainio (1926) 3 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. VIII : 528.
on granite rocks, Matopos, *v. d. Byl 162*, Type.

Lecanora expallens (DC.) Ach.

Stizenberger (1890) no. 736 ; Zahlbruckner, Cat. Lich. V : 449.
Lecanora expallens var. *lutescens* Stizenberger l.c.
on bark of trees, near Durban, *Wilms ;* on bark of **Quercus** sp., Talbe Mt., *MacOwan*.

Lecanora flavovirens Fée.

Nylander (1869 a) 8 ; Stizenberger (1890) no. 714 ; Zahlbruckner, Cat. Lich. V : 453.
on bark, Durban, *Armstrong ;* on rocks, near Saldanha Bay, *Osbeck*.

Lecanora flexuosa Stizenb.

Stizenberger (1890) 219, no. 709 ; Zahlbruckner, Cat. Lich. V : 454.
on hard rocks, ' Duivels Knockler ', near Lydenburg, *Wilms*, Type.

Lecanora frustulosa Ach.

Drège (1843) 53, 75 ; Zahlbruckner, Cat. Lich. V : 454.
on stones, Witberg *Drège ;* Piquetberg, *Drège*.

Lecanora galactiniza Nyl.

apud Crombie (1876 a) 173, (1876 b) 20 : Hue (1891) 62 : Stizenberger (1890) no. 679 ; van der Byl (1931) 12 ; Zahlbruckner (1932) 246, Cat. Lich. V : 459.
on quartzite rocks, Table Mt., *Eaton*, Type ; on rocks near river, Salisbury, *Eyles 4822* (v. d. Byl 589).

Lecanora helva Stizenb.

Stizenberger (1890) 218, no. 704 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. V : 472.

on bark of pomiferous trees, near Lydenburg, *Wilms*, Type ; on bark of **Ficus elastica** Roxb., Knysna, *v. d. Byl 270* (det. Vain.) ; on bark of **Ocotea bullata** E. Mey., Knysna, *v. d. Byl 267, 268* (det. Vain.) ; on bark of **Xylotheca Kraussiana** Hochst. Mayville, *v. d. Byl* (det. A. L. Sm.).

Lecanora hypocrocina Nyl.

J. Müller-Arg. (1890) 342, (1893 b) 297 ; Hue (1891) 63 ; Stizenberger (1895) no. 692*bis* ; Schinz (1905) 394 ; Zahlbruckner, Cat. : Lich. V : 472

on bark, near Boroma, *Menyharth 469, 470*.

Lecanora impressa (Krempleh.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 319.

Lecidea impressa Krempleh., J. Müller-Arg. (1893 b) 298 ; Schinz (1905) 395.

on rocks, near Boroma, *Menyharth 1, 216*.

Lecanora labiosa Stizenb.

Stizenberger (1890) 215, no. 686 ; Zahlbruckner, Cat. Lich. V : 479.

on bark of tree, Spitzkop near Lydenburg, *Wilms*, Type.

Lecanora leprosa Fée

Zahlbruckner, Cat. Lich. V : 480.

Lecanora subfusca Ach. var. *cinereocarnea* Müll. Arg., J. Müller-Arg. (1893 b) 297 ; Schinz (1905) 394.

Lecanora cinereocarnea Stizenberger (1890) 218, no. 703 ; van der Byl (1931) 12.

on bark, Boroma, *Menyharth 251, 265, 272, 274* ; near Lydenburg, *Wilms* ; Keurbooms-rivier, Knysna, *v. d. Byl 285* (det. Vain.) ; Woodbush, *v. d. Byl 526* (det. Vain.) ; on trunk of **Acacia mollissima** Willd., Howick, *v. d. Byl 200* (det. Vain.) ; Woodbush, *v. d. Byl 492* (det. Vain.) ; on trunk of **Ficus elastica** Roxb., Knysna, *v. d. Byl 285* (det. Vain.).

Lecanora leptoplaca Zahlbr.

Zahlbruckner (1932) 249.

on sandstone rocks, Laingsberg, *Brunnthaler*, Type.

Lecanora leucoxantha Müll. Arg.

J. Müller-Arg. (1888) 205 ; Zahlbruckner, Cat. Lich. V : 483.

Lecanora leucoxanthella Stizenberger (1890) 225, no. 742.

on bark, near Lydenburg, *Wilms*, Type.

Lecanora nidulans Stizenb.

Stizenberger (1890) 192, no. 531 ; Zahlbruckner, Cat. Lich. V : 644.

on Mastenberg, near Saldanha Bay, *Zeyher*, Type.

Lecanora nubila Stizenb.

Stizenberger (1890) 231, no. 783 ; Zahlbruckner, Cat. Lich. V : 335.

Aspicilia nubila Hue (1912) 114.

on dolomite rocks, Spitzkop, near Lydenburg, *Wilms*, Type.

Lecanora obvirescens Stizenb.

Stizenberger (1890) 224, no. 740 ; Zahlbruckner, Cat. Lich. V : 491.
on woody parts of **Phoenix dactylifera** Linn., Durban, *Wilms*, Type.

Lecanora ostracoderma Ach.

Acharius (1810) 347, (1814) 147 ; Zahlbruckner, Cat. Lich. V : 495.
Parmelia ostracoderma Acharius (1803) 157.
Lichen peltatus **Lecanora ostracoderma* Lamarck (1913) 392.
on rocks, South Africa.

Lecanora pallida (Schreb.) Rabenh.

Zahlbruckner, Cat. Lich. V : 496.
Lecanora albella Ach., Stizenberger (1890) no. 708.
on bark of trees, Cape of Good Hope, *Gueinzius*, *Breutel* ; near Lydenburg, *Wilms*.

Lecanora placodina Zahlbr.

Zahlbruckner, (1921) 240, (1926 b) 503, Cat. Lich. V : 509.
on schistose rocks, Wasserberg, near Windhoek, *Fincke*, Type.

Lecanora polytypa Vain.

in Herb. van der Byl, nom. nud.
on ironstone, Howick, *v. d. Byl 219* (det. Vain.).

Lecanora prosecha Ach. var. **homaloplaca** (Nyl.) Vain.

Vainio (1901) 404 ; Zahlbruckner, Cat. Lich. V : 519.
Lecanora homaloplaca Nylander (1868) 512 ; Hue (1891) 65.
on hard rocks, Howick, *v. d. Byl*.

Lecanora psaromela Nyl.

apud Crombie (1876 a) 174, (1876 b) 20 ; Hue (1891) 58 ; Stizenberger (1890) no. 765 ; Zahlbruckner, Cat. Lich. V : 520.
on rocks, Table Mt., *Eaton*, Type.

Lecanora Rehmannii Stizenb.

Stizenberger (1890) 227, no. 757 ; Zahlbruckner, Cat. Lich. V : 522.
on bark in northern Natal, *Rehmann*, Type.

Lecanora rupicola (Linn.) Zahlbr.

Zahlbruckner, Cat. Lich. V : 525.
Lecanora glaucoma Ach., Drège (1843) 53, 80, 86.
on rocks, Witberg, *Drège* ; Piquetberg, *Drège* ; du Toits Kloof, *Drège* ; Paarlberg, *Drège*.

Lecanora subcarnea (Sw.) Ach.

Zahlbruckner, Cat. Lich. V : 547.
(?) as *Lecanora subcarnosa* (Sw.) Ach., van der Byl (1931) 13.
(?) on stone, Zimbabwe Ruins, *v. d. Byl*.

Lecanora subdepressa Nyl.

Zahlbruckner, Cat. Lich. V : 351.
Lecanora gibbosa (Ach.) Nyl. var. *subdepressa* Nyl., Herb. v. d. Byl.
on stones, Stellenbosch, *v. d. Byl 257* (det. Vain.).

Lecanora subfusca (Linn.) Ach.

von Flotow (1843) 20 ; Drège (1843) 66, 132, 134, 146 ; Krauss (1846) 201. Stizenberger (1890) no. 682 ; van der Byl (1931) 13 ; Zahlbruckner, Cat. Lich. V : 551.
on bark, Cape of Good Hope and near Lydenburg, *Wilms ;* Maritzburg, *v. d. Byl 57* (det. A. L. Sm.) ; Boschberg, *MacOwan 528*, 74 ; on **Quercus,** Klapmuts, *v. d. Byl 96, 105* (det. Merrill) ; on bark of **Gymnosporia,** Swellendam, *Krauss ;* Witpoortberg, *Drège* Samteesvlakte, *Drège ;* between ' Key ' and ' Basche ', *Drège ;* Hoffmanskloof, *Drège ;*

Var. **campestris** Rabenh.

Stizenberger (1890) no. 682 ; Zahlbruckner, Cat. Lich. V : 560.
on granite rocks, Orange Free State, *Rehmann.*

Var. **subcrenulata** Nyl.

van der Byl (1931) 13 ; Zahlbruckner, Cat. Lich. V : 567.
on bark of **Ficus** sp., Klapmuts, *v. d. Byl 134* (det. Vain.) ; on **Quercus** sp., Elsenburg, *v. d. Byl.*

Var. **subgranulata** Nyl.

Zahlbruckner, Cat. Lich. V : 567.
Lecanora subgranulata Nyl., Stizenberger (1890) no. 699.
on bark of pomiferous trees, near Lydenburg, *Wilms.*

Lecanora sylvestris (Nyl.) Stizenb.

Stizenberger (1890) no. 692 ; Zahlbruckner, Cat. Lich. V : 579.
on bark of **Rhamnus** sp., near Uitenhage, *Krauss.*

Lecanora thiocheila Stizenb.

Stizenberger (1890) 219, no. 711 ; Zahlbruckner, Cat. Lich. V : 5888.
on bark, near Lydenburg, *Wilms.*

Lecanora varia (Ehrht.) Ach.

von Flotow (1843) 22 ; Krauss (1846) 201 ; Stizenberger (1890) no. 745 ; Zahlbruckner, Cat. Lich. V : 592.
on cortex of **Opuntia,** around Cape Town, *Krauss.*

Lecanora vincentina Nyl.

van der Byl (1931) 13 ; Zahlbruckner, Cat. Lich. V : 599.
on rock, Sarnia, *Hean* (v.d. Byl 300, 301, 313, det. Vain.).

Ochrolechia africana Vain.

Vainio (1926) 3 ; van der Byl (1931) 12 ; Zahlbruckner, Cat. Lich. VIII : 548.
on trunk of tree, Durban, *v. d. Byl 136,* Type.

Ochrolechia africana Zahlbr.

Zahlbruckner (1926 b) 504, Cat. Lich. V : 676, not Vain.
on stem of **Portulacaria afra** Jacq., Zwartkops, near Port Elizabeth, *Brunnthaler.*

Ochrolechia pallescens (Linn.) Massal.

Zahlbruckner (1932) 250, Cat. Lich. V : 682 ; van der Byl (1931) 12.
Lecanora pallescens Röhl., J. Müller-Arg. (1893) b 297 : Drège (1843) 134 : Stizenberger (1895) no. 774 ; Schinz (1905) 394.
on bark, near Boroma, *Menyharth 259 p. p. ;* Salisbury, *v. d. Byl 602 ;* The Wilderness, *v. d. Byl 293 ;* Onrust, *v. d. Riet* (v. d. Byl 323, det. Vain.) ; Tradouw's Pass, *v. d. Byl 358* (det. Vain.) ; on trunk of **Acacia mollissima** Willd., Howick, *v. d. Byl 202* (det. Vain.) : on bark of **Canthium** sp., Brenton, Knysna, *v. d. Byl 689* ; Hoffmans Kloof, between Enon and Zuureberge, *Drège.*

Ochrolechia parella (Linn.) Massal.

Massalongo (1861) 56 ; Zahlbruckner (1932) 249, Cat. Lich. V : 686.
Lecanora parella Ach., Drège (1843) 80 : Nylander (1869 a) 8 : Stizenberger (1890) no. 775 ; van der Byl (1931) 13.
Variolaria lactea Wahlbg., Drège (1843) 80.
on branches and trunks of trees, The Heads, Knysna, *v. d. Byl 937* ; Stella Bush, *v. d. Byl 71* (det. A. L. Sm.) : du Toits Kloof, *Drège ;* on trunk of **Erythrina caffra** Thunb., Durban, *v. d. Byl 76* (det. A. L. Sm.) : on trunk of **Gymnosporia** sp. Stil Bay, *v. d. Byl 944* (det. (det. A. L. Sm.) ; on **Pandanus** sp., Durban, *v. d. Byl 14*, (det. A. L. Sm.) ; on stem of **Portulacaria afra** Jacq., Zwartkops, *Brunnthaler.*
on volcanic rocks, Cape, *Wawra ;* on sandstone rocks, Durban, *Armstrong ;* The Heads, Knysna, *v. d. Byl 635.*

Phlyctella andensis Nyl.

Stizenberger (1890) no. 845 ; Zahlbruckner, Cat. Lich. V : 785.
on tree trunks, Boschberg, *MacOwan.*

Phlyctella capillaris (Stirt.) Stizenb.

Stizenberger (1890) 241, no. 846 ; Zahlbruckner, Cat. Lich. V : 786.
Phlyctis capillaris Stirton (1877) 217.
on bark, Boschberg, *MacOwan.*

Phlyctidia boliviensis (Nyl.) Müll. Arg.

Zahlbruckner, Cat. Lich. V : 789.
Phlyctis boliviensis Nylander (1869 a) 8 : Stirton (1877) 217 : Stizenberger (1890) no. 847.
on bark, Durban, *Armstrong ;* Boschberg, *MacOwan*, 118.

Phlyctis argena Flotow

Zahlbruckner, Cat. Lich. V : 782.
Thelotrema variolarioides Ach., Drège (1843) 132, 141, 146.
on trees, Samteesvlakte, nr. Enon, *Drège ;* ' Glenfilling ', *Drège ;* between ' Key ' and ' Basche ', *Drège.*

Phlyctis candida Zahlbr.

Zahlbruckner (1932) 250.
on bark of trees, Hoofbos, Knysna, *v. d. Byl 881*, Type.

Candelaria concolor (Dicks.) Arn.

Steiner (1907) 641 ; van der Byl (1931) 13 ; Zahlbruckner, Cat. Lich. VI : 4.
Lecanora laciniosa Nyl., Stizenberger (1890) no. 647.
on bark, Somerset East, *MacOwan 502* (? S.A.M. 46964) ; near Lydenburg, *Wilms ;* Stellenbosch, *Duthie* 9 ; on **Schinus molle** Linn., Durbanville, *v. d. Btl 442* (det. Vain.).

Candelaria fibrosa (Fr.) Müll. Arg.

Zahlbruckner, Cat. Lich. VI : 9.
Physcia fibrosa Nylander (1860 a) 413 ; Stirton (1877) 215.
Lecanora fibrosa Stizenberger (1890 & 1895) 208, no. 638.
on bark, Cape, *MacOwan ;* Spitzkop, near Lydenburg, *Wilms ;* Piesanghoek, *Watson*, 774 ; Zambesi Region, *Menyharth.*

Candelaria stellata Müll. Arg.

J. Müller-Arg. (1887) 319, (1893 b) 296 ; Zahlbruckner, Cat. Lich. VI : 9.
on bark, Boroma, *Menyharth 262, 264.*

Parmelia abessinica Nyl.

Krempelhüber (1877) 140 ; J. Müller-Arg. (1890) 339 ; Zahlbruckner, Cat. Lich. VI : 223.
Parmelia abyssinica Nylander (1885) 608 ; Hue (1890) 282 ; Stizenberger (1890) no. 286.
on bark, near Lydenburg, *Wilms.*

Var. **sorediosa** Müll. Arg.

J. Müller-Arg. (1885) 501 ; Zahlbruckner, Cat. Lich. VI : 223.
Parmelia abyssinica var. *sorediosa* Müll. Arg., Stizenberger (1890) no. 286.
Parmelia hababiana Gyelnik (1931) 288.
on branches, Transvaal, *Wilms.*

Parmelia adhaerens Nyl.

apud Crombie (1876 a) 168, (1876 b) 19 ; Stizenberger (1890) no. 272 ; Hue (1890) 290 ; Zahlbruckner, Cat. Lich. VI : 120.
on quartzite rocks, Table Mt., *Eaton*, Type.

Parmelia aleuriza Vain.

apud Lynge (1937) 86.
on bark of **Quercus** sp., Hopefield, *v. d. Byl*, Type.

Parmelia amphixanthoides Steiner & Zahlbr.

Zahlbruckner (1926 b) 505, Cat. Lich. VI : 121.
on sandstone rocks, Laingsburg, *Brunnthaler*, Type.

Parmelia amplexa Stirt.

Stirton (1877) 212 ; Zahlbruckner, Cat. Lich. VI : 121.
on bark, Boschberg, *MacOwan*, Type.

Parmelia atrichoides Nyl.

apud Crombie (1876 a) 167; Stizenberger (1890) no. 305 ; Hue (1890) 284 ; Jatta (1910) 192 ; Zahlbruckner, Cat. Lich. VI : 152.
on rocks, Table Mt., *Eaton.*

Parmelia Bijlii Vain.

Vainio (1926) 1 ; Lynge (1937) 86 ; van der Byl (1931) 13 ; Zahlbruckner, Cat. Lich. VIII : 554.

on bark of **Quercus** sp., Klapmuts, *v. d. Byl 128*, Type and *149*.

Parmelia Borreri Turn.

Drège (1843) 85, 141, 144, 146 ; Nylander (1860 a) 389, (1869 b) 289 ; Stizenberger (1890) no. 320 ; van der Byl (1931) 13 ; Zahlbruckner, Cat. Lich. VI : 153.

Parmelia dubia Schaer., Massalongo (1861) 50 ; Steiner (1907) 641 ; van der Byl (1931) 13.

on bark, Cape, *Wawra ;* Natal, *Rehmann ;* Transvaal, *MacLea ;* on **Punica granatum** L., Hopefield, *v. d. Byl 389* (det. Vain.) ; on **Quercus** sp., Klapmuts, *v. d. Byl 80* (det. Merrill) ; on bark, Paarlberg, *Drège ;* ' Glenfilling ', *Drège ;* in a valley in the forest, between ' Buffelrivier ' and ' Key ' *Drège ;* in a damp place in the forest, between ' Gekau ' and ' Basche ', *Drège.*

Var. **stictica** Duby

Zahlbruckner (1932) 254, Cat. Lich. VI : 156.

on bark, Woodbush, *v. d. Byl 520.*

Var. **ulophylla** Nyl.

Zahlbruckner (1926 b) 512, Cat. Lich. VI : 156.

on bark, Haifischinsel off Lüderitzbucht, *Fincke.*

Parmelia brachyphylla Müll. Arg.

J. Müller-Arg. (1886) 256 ; Stizenberger (1890) no. 304 ; Wainio (1900) 4 ; Zahlbruckner (1926 b) 512, Cat. Lich. VI : 157.

n rocks, near Lydenburg, *Wilms*, Type.

Parmelia Brunnthaleri Steiner & Zahlbr.

Zahlbruckner (1926 b) 505, Cat. Lich. VI : 122, Gyelnik (1938) 270.

n sandstone rocks, Matjesfontein, Brunnthaler, Type ; near Kakamas, *v. d. Byl 1146.*

f. **irregularis** Gyeln.

Gyelnik (1938) 270.

on stone, Rooidam, Calvinia, *v. d. Byl 1122.*

Parmelia caffrorum Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 555.

Parmelia austroafricana Zahlbruckner, Cat. Lich. VI : 152, non Stirton 1877

Parmelia capensis Nylander (1885) 613, non Ach. ; Hue (1890) 285 ; Stizenberger (1890) no. 315.

Cape of Good Hope, *Drège.*

Parmelia caperata (Linn.) Ach.

Drège (1843) 141 ; (1860 a) 376 ; Stirton (1877) 212 ; Stizenberger (1890) no. 254 ; van der Byl (1931) 13 ; Zahlbruckner (1926 b) 506, Cat. Lich. VI : 226.

on bark and old wood, ' Glenfilling ', *Drège ;* Rhodesia, *Eyles 822* (v. d. Byl 557) ; on **Podocarpus** sp., van Reenen's Pass, *Brunnthaler ;* on **Quercus** sp., Genadendal, near Caledon, *Brunnthaler.*

Parmelia centrifuga (Linn.) Ach.

Stizenberger (1890) no. 270 ; Zahlbruckner, Cat. Lich. VI : 122.
on rocks, Cape, *Zeyher*.

Parmelia ceresina Vain.

apud Lynge (1937) 87 ; van der Byl (1931) 13.
on rocks, Ceres, *Leslie* (v. d. Byl 474), Type.

Parmelia cetrarioides Del.

Stizenberger (1890) no. 296 ; Zahlbruckner, Cat. Lich. VI : 233.
on bark, South Africa, without locality, *Drège, Zeyher, Rehmann, Wilms*.

Parmelia cetrata Ach.

Zahlbruckner, Cat. Lich. VI : 160.
Parmelia perforata Ach. var. *cetrata* Fr., Nylander (1860 a) 378 ; Hue (1890) 280 ; Stizenberger (1890 & 1895) no. 280.
on bark, Natal, *Rehmann ;* Pondoland, *Bachmann*.

f. **ciliosa** Viaud. Gr. Marais

Steiner (1907) 641 ; Zahlbruckner (1926 b) 514, Cat. Lich. VI : 160.
on bark, Mt. Mamotsuiri, *Junod 975 ;* on **Portulacaria afra** Jacq., Despatch, near Uitenhage, *Brunnthaler ;* on the ground, near Caledon, *Brunnthaler*.

Parmelia chlorea Stizenb.

Stizenberger (1890) 151, no. 257 ; Zahlbruckner, Cat. Lich. VI : 124.
on stones, Orange Free State, *Orpen*.

Parmelia citrinireagens Gyeln.

Gyelnik (1931 b) 282 ; Zahlbruckner, Cat. Lich. VIII : 555.
Parmelia digitulata Nyl. var. *citrinireagens* Gyelnik (1934) 154.
Enon, *Breutel* (sub *Parmelia conspersa flavic.* in Herb. Bouly de Lesdain, Dunkerque) ; Montagu Pass, *Breutel* (sub *Parmelia conspersa var. E.* in Herb. B. de Lesdain).

Var. **angustior** Gyeln.

Gyelnik (1931 b) 282 ; Zahlbruckner, Cat. Lich. VIII : 555.
Table Mt., *Wilms* (sub *Parmelia conspersa* var. *laxa* in Herb. Bouly de Lesdain).

Parmelia colorata Gyeln.

Gyelnik (1938) 272.
on stone, Bitterfontein, Namaqualand, *v. d. Byl 1192*, Type ; without locality, *de Boers* (v. d. Byl 1087).

Parmelia concolor Spreng.

Sprengel (1827) 328 ; Zahlbruckner (1932) 252, Cat. Lich. VI : 125.
Parmelia leonora Sprengel apud Massalongo (1861) 51 ; Stizenberger (1890) 152, no. 260 ; van der Byl (1931) 14.
Parmelia conspersa Ach. var. *leonora* Lindsay (1859) 233.
Parmelia phaeophana (1877) Stirton 214.
on rocks, South Africa, without locality, *Drège 64, Breutel, Baur, Wawra, McLea* ; Boschberg, *MacOwan ;* Brandfort, *Verwoerd* (v. d. Byl 382, det. Vain.) ; Gouritz Rivier,

v. d. Byl 826 ; Miuzenberg, *v. d. Byl 984, 986 :* on sandstone rocks, Stellenbosch, *v. d. Byl 975 ;* Lion's Head, *Pappe* (S.A.M. 46868) ; without locality, *Pappe 12* (S.A.M. 46876).

Var. **multifida** (Flotow) Zahlbr.

Zahlbruckner, Cat. Lich. VI : 125.

Parmelia leonora Spreng. var. *multifida* von Flotow (1843) 29 ; Massalongo (1861) 51.

Parmelia conspersa var. *multifida* (Flotow) Stizenberger (1890) no. 259.

on rocks, Cape, *Wawra, Krauss, Wilms.*

Var. **platyphylla** (Massal.) Zahlbr.

Zahlbruckner, Cat. Lich. VI : 125.

Parmelia leonora var. *platyphylla* Massalongo (1861) 51 ; ? von Flotow (1843) 29, nom. nud. ; Krauss (1846) 201.

on rocks, Cape of Good Hope, *Wawra ;* slopes of Table Mt., *Krauss.*

Parmelia concrescens Wain.

Wainio (1901) 400 ; Zahlbruckner, Cat. Lich. VI : 162.

on trunk of tree, in high mountain region of Serra da Xella, *Welwitsch 30 pr. p.*

Parmelia conspersa Ach.

Acharius (1803) 205, (1810) 486, (1814) 209 ; Drège (1843) 52, 80, 114, 125, 132, 133, 138, 141 ; Nylander (1860 a) 391 ; Massalongo (1861) 50 ; Crombie (1876 a) 167 ; Stizenberger (1890) no. 259 ; Wainio (1901) 401 ; Steiner (1907) 639 ; Schultze (1907) 706 ; van der Byl (1931) 13 ; Zahlbruckner (1926 a) 506, Cat. Lich. VI : 125 ; Watt. & Breijer-Brandwyk (1932) 215.

amongst mosses on rocks, Table Mt., *Eaton ;* on rocks, Cape, *Wawra ;* Witberg, *Drège ;* du Toits Kloof, *Drège ;* Olyfhout Kloof, *Drège ;* Paarlberg, *Drège ;* between Groenekloof and Dassenberg, *Drège ;* near Klein and Groot Vischrivier, *Drège ;* ' Glenfilling ', *Drège ;* in forest ' Koratra ', *Drège ;* Samteesvlakte, *Drège ;* Swellendam, *Marloth 12102 ;* Klein Vis Rivier, *MacOwan 507, 507* **b**, 85, 86 ; Matopos, *Borle 54* **c**, 87 ; Stellenbosch, *Duthie 5 ;* Paarl, *v. d. Byl ;* Wellington, *Doidge*, 89 ; Klapmuts, *v. d. Byl 99* (det. Merrill) ; Kentani, *Pegler 1229*, 88; Bandolier Kop, *Doidge*, 90 ; Kooa, Kalahari, *Schultze 116 ;* on sandstone rocks in high mountain region of Morro de Lopollo, *Welwitsch 53, 54 pr. p.*

f. **isidiata** Anzi.

Zahlbruckner (1926 b) 506, Cat. Lich. VI : 130 ; van der Byl (1931) 13.

on schistose rocks, Haufischinsel, *Fincke ;* on primitive rocks, Wasserberg, near Windhoek, *Fincke ;* on stones, Ceres, Leslie (v. d. Byl 477).

Var. **austro-africana** (Stirt.) Stizenb.

Stizenberger (1890) 152, no. 259 ; Zahlbruckner, Cat. Lich. VI : 131.

Parmelia austro-africana Stirton (1877) 212.

on rocks, near Kimberley, *Shaw*, Type ; near Klein Vis Rivier, *MacOwan*, 84.

Var. **benguellensis** Wain.

Zahlbruckner, Cat. Lich. VI : 131.

Parmelia subconspersa Nyl. var. *benguellensis* (Welw.) Wainio (1901) 401.

on trunks of evergreen trees, in forest region of Morro de Lopollo Mts., *Welwitsch 31 pr. maj. p. ;* in high mountain region of Serra da Zella, *Welwitsch 30 pr. p.*

on rocks, Ceres, *Leslie* (v. d. Byl 454 det. Vain.) ; Makoni, *Eyles 825* (v. d. Byl 561, det. Vain.).

Var. **constrictans** (Nyl.) Müll. Arg.

J. Müller-Arg. (1883) 48 ; Zahlbruckner (1932) 253, Cat. Lich. VI : 131.
Parmelia constrictans Nyl. apud Crombie (1876 a) 168, (1876 b) 19 ; Stizenberger (1890) no. 264 ; Hue (1890) 289 ; van der Byl (1931) 13.
on ground, towards summit of Table Mt., *Eaton*, Type and *MacOwan ;* near Lydenburg, *McLea ;* Knysna, *v. d. Byl.*
on rocks, Bloukransrivier, *v. d. Byl 662 ;* near Ceres, *Leslie* (v. d. Byl 475, det. Vain, v. d. Byl 612).

Var. **endomiltodes** (Nyl.) Müll. Arg.

J. Müller-Arg. (1891) 378 ; Zahlbruckner (1932) 253, Cat. Lich. VI : 131.
Parmelia endomiltodes Nyl. apud Crombie (1876 a) 168 ; Hue (1890) 289 ; Stizenberger (1890) no. 263 ; van der Byl (1931) 13.
on rocks, Table Mt., *Eaton*, Type ; on crumbling granite rocks, Lion's Head, *MacOwan ;* on rocks, Stellenbosch, *v. d. Byl 973 ;* Grey's Pass, Citrusdal, *v. d. Byl 758.*

Var. **eradicata** (Nyl.) Müll. Arg.

J. Müller-Arg. (1883) 48 ; Zahlbruckner, Cat. Lich. VI : 131.
Parmelia constrictans var. *eradicata* Nyl. apud Crombie (1876 a) 168, (1876 b) 19 ; Hue (1890) 289 ; Stizenberger (1890) no. 264 ; Zahlbruckner, (1926 b) 507
amongst mosses, summit of Table Mt., *Eaton*, Type ; on rocks, near Caledon, *Brunnthaler.*

Var. **hypoclista** Nyl.

Nylander (1860 a) 391 ; Crombie (1876 a) 168 ; Hue (1890) 289, (1899) 142,; van der Byl (1931) 13; Zahlbruckner (1926 b) 507, (1932) 253, Cat. Lich. VI : 132.
on rocks and on ground, Table Mt., *Eaton ;* Caledon, *Brunnthaler ;* Kloof Neck, *Brunnthaler ;* near Swakopmund, *F. & R. Wettstein ;* Marandellas, *Eyles 3898* (van der Byl 547, det. Vain.).

Var. **hypoclistoides** Müll. Arg.

J. Müller-Arg. (1883) 201 ; Zahlbruckner, Cat. Lich. VI : 132.
Parmelia scabrosa Taylor (1847) 162.
Cape of Good Hope (Herb. Hooker).

Var. **hypomelaena** Vain.

van der Byl (1931) 13, ? nom. nud.
on rock, Ceres, *Leslie* (v. d. Byl 476, det. Vain.).

Var. **incisa** (Tayl.) Zahlbr.

Zahlbruckner, Cat. Lich. VI : 132.
Parmelia incisa Taylor (1847) 162, non Fr.
Parmelia subconspersa var. *incisa* Stizenberger (1890) 153.
on Table Mt. and Lion's Head, *MacOwan, Wilms ;* Transvaal, *Wilms.*

Var. **lacinulata** Gyeln.

Gyelnik (1938) 272.
between Calvinia and Middelpos, *v. d. Byl 1108*, Type.

Var. **polyphylla** Müll. Arg.

Zahlbruckner, Cat. Lich. VI : 133.
Parmelia conspersa f. *polita, polyphylla* Mey. & Flotow (?) as *P. conspersa* var. *polita* Flotow in van der Byl (1931) 13.
(?) on shrubs, Robertson, *Bruwer* (v. d. Byl 407, det. Vain.).

?) on stones, Stellenbosch, *v. d. Byl 250* (det. Vain.), *Eyles* (v. d. Byl 384) : Paarl, *van Velden* (v. d. Byl 335, det. Vain.) : Riversdale, *v. d. Byl 371* (det. Vain.).

Var. **thamnidiella** (Stirt.) Stizenb.

Zahlbruckner, Cat. Lich. VI : 135.
Parmelia thamnidiella Stirton (1877) 213 ; Byelnik (1938) 293.
Parmelia subconspersa var. *thamnidiela* (Stirt.) Stizenberger (1890) 153, no. 265.
on basalt rocks, summit of Boschberg, *MacOwan*, Type, 106 ; on ground, Cave Mt., Graaff Reinet, *McLea*.

Parmelia conspersula Nyl.

apud Crombie (1876 a) 168, (1876 b) 19 ; Hue (1890) 289, (1899) 142 ; Stizenberger (1890) no. 261 ; Zahlbruckner, Cat. Lich. VI : 135.
on rocks, Table Mt., *Eaton*, Type.

Parmelia conturbata Müll. Arg.

J. Müller-Arg. (1888) 44 ; Stizenberger (1890) no. 334 : Zahlbruckner (1926 b) 507, (1932) 251, Cat. Lich. VI : 81.
on quartzite rocks, Namaqualand, *Marloth 6548 ;* Great Namaqualand, *Schinz ;* Lüderitzbucht, *F. & R. Wettstein ;* in mountains, near Sendelingsdrift, *F. & R. Wettstein*.

Var. **exornata** Zahlbr.

Zahlbruckner (1932) 251.
on non-calcareous rocks, Steinkopf, Namaqualand, *Meyer* (v. d. Byl 950) Type.

Parmelia Cooperi Steiner & Zahlbr

Zahlbruckner (1926 b) 528, Cat. Lich. VI : 235.
Kaffraria, *Cooper, S. Afric. Plants 1813*, Type.

Parmelia coronata Fée var. **denudata** Wain.

Wainio (1901) 401 ; Zahlbruckner, Cat. Lich. VI : 163.
on trunks of **Apodyte dimidiata** E. Mey., in high forest, Morro de Lopollo Mts., *Welwitsch 33*, Type.

Parmelia cristifera Tayl.

van der Byl (1931) 13 ; Zahlbruckner, Cat. Lich. VI : 237.
on trunk of **Oreodoxa regia** H. B. & K., Durban, *v. d. Byl 26* (det. A. L. Sm.).

Parmelia cuprea Pers.

apud Gaudich. (1826) 196 ; Zahlbruckner, Cat. Lich. VI : 274.
on rocks, Cape of Good Hope.

Parmelia digitulata Nyl.

Zahlbruckner, Cat. Lich. VI : 136, VIII : 558 ; Gyelnik (1931 b) 279.
Var. **esaxicola** Gyeln.

Gyelnik (1938) 276.
on ground, Wolseley, *v. d. Byl 1144*, Type.

f. **mitrovicensis** Gyeln.

Gyelnik l.c.
Bitterfontein, Namaqualand, *v. d. Byl 1187*.

Parmelia Domokosii Gyeln.

Gyelnik (1938) 277.
on stone, Laingsburg, *v. d. Byl 1091*, Type.

Parmelia Dregeana Hampe

apud Nylander (1860 a) 398 ; (1890) 291, (1899) 139 ; Stizenberger (1890) no. 340 ; Zahlbruckner, Cat. Lich. VI : 83.
on quartzite rocks, Cape of Good Hope, *Drège*, Type.

Parmelia ecaperata Müll. Arg.

J. Müller-Arg. (1891) 378 ; Wainio (1900 a) 5 ; Stizenberger (1893) no. 254*bis* ; Zahlbruckner, Cat. Lich. VI : 136.
on trunks of palms, along the Shire River, between Lake Nyassa and the Zambesi River, *Kirk*.

Parmelia euneta Stirt.

Stirton (1878) 298 ; Zahlbruckner, Cat. Lich. VI : 238.
on bark, near (?) Victoria, South Africa, *G. Thomson*.

Parmelia fissurina Zahlbr.

Zahlbruckner (1936) 172.
on granite, between Brandvlei and Tontelboskolk, Calvinia Distr., *v.d. Byl 1136*, Type ; near Upington, *v. d. Byl 1159*.

Parmelia fuliginosa Nyl.

Crombie (1876 a) 169 ; Stizenberger (1890) no. 335 ; Zahlbruckner, Cat. Lich. VI : 87.
on rocks, Table Mt., *Eaton ;* on crumbling granite rocks, Lion's Head, *MacOwan*.

Parmelia glabra Nyl.

Stizenberger (1890) no. 336 ; Zahlbruckner, Cat. Lich. VI : 90.
on rocks, near Lydenburg, *McLea*.

Parmelia gracilescens Wain., var. **angolensis** Wain.

Wainio (1901) 401 ; Zahlbruckner, Cat. Lich. VI : 168.
Parmelia angolensis Wain., van der Byl (1931) 13.
on tree trunks, in high mountain region of Serra da Xella, *Welwitsch 30 pr. p. ;* Morro de Lopollo, *Welwitsch 31 pr. p*, Type *;* on trunk of **Acacia mollisima** Willd., Woodbush, *v. d. Byl 495* (det. Vain.) ; on tree trunk Woodbush, *v. d. Byl 504, 528* (det. Vain.).
on rock, Hanover, Cape, *v. d. Merwe* (v. d. Byl 435, det. Vain.).

Parmelia granatensis Nyl.

van der Byl (1931) 13 ; Zahlbruckner, Cat. Lich. VI : 168.
on tree trunk, Cango Caves, Oudtshoorn, *v. d. Byl*.

Parmelia Hildebrandtii Kremplelh.

Var. **nuda** Müll. Arg.

J. Müller-Arg. (1891) 376, (1893 b) 296 ; Zahlbruckner, Cat. Lich. VI : 240.
Parmelia Hildenbrandtii f. *nuda* Stizenberger (1893) no. 294.
on bark, near Boroma, *Menyharth 464, 475*.

Var. **sorediosa** Müll. Arg.

J. Müller-Arg. (1891) 376, (1893 b) 296 ; Zahlbruckner, Cat. Lich. VI : 240.
Parmelia Hildebrandtii f. *sorediosa* Stizenberger (1893) no. 294.
on bark, near Boroma, *Menyharth 464 ;* Zambesi region, *Kirk*.

Parmelia hottentotta Ach.

Acharius (1803) 219, (1810) 456 : Nylander (1860 a) 399, (1869 b) 321, not. ; Lindsay (1859) 235 ; Stirton (1877) 215 ; Crombie (1876 a) 170 ; Hue (1890) 291 ; Stizenberger (1890) 165, no. 343 ; Reinke (1895) 385, f. 102 ; Glück (1899) 171 ; Schultze (1907) 706 ; Lettau (1914) 48 ; Juel (1918) 50 : van der Byl (1931) 13 : Zahlbruckner (1926 b) 539, (1936 c) Pl. 5, f. 5-6, (1932) 254, Cat. Lich. VI : 272.
Lichen ceranoides Lamarch (1789) 487.
Lichen hottentottus Acharius (1798) 155 ; Thunberg (1800) 187, (1823) 746.
Sticta hottentotta Acharius (1814) 231 ; Delise (1822) 134 ; Drège (1843) 68, 64, 85, 92.
Sticta hottentotta var. *umbilicata* Delise (1822) 135, Tab. XV. f. 58.
Peltigera ceranoides Sprengel (1827) 304.
Omphalodium hottentottum Flotow, von Flotow (1843) 27 ; Krauss (1846) 201 ; Hue (1900) 109 ; Minks (1900) 85.
Parmelia stictella Massalongo (1861) 52.
Imbricaria hottentottum Schwendener (1863) 159.
on rocks, rarely on trunks of trees, Cape, *Thunberg ;* Table Mt., *Eaton ;* east side of Table Mt., *Krauss ;* top of Winterhoekberg, *Krauss ;* Uitenhage, *Krauss ;* Bokpoort, Nieuweveld, *Drège ;* nr. Klaarstroom, Zwartebergen, *Drège ;* Paarlberg, *Drège ;* between Natvoet and Garip, *Drège ;* ? Boschberg, *MacOwan 509* (S.A.M. 46971 ; Arn. Exsicc. 1097 ; Lojka Lichenoth. univ. 64) ; Klein Vis Rivier, *MacOwan* 92, 93 ; Bazuja, *Baur* (MacOwan 70 a) ; on rocks, Matjesfontein, *Brunnthaler ;* near Lydenburg, *McLea ;* Steinkopf, *Meyer* (v. d. Byl 964) ; Kloof Neck, *Brunnthaler ;* near Laingsburg, *Marloth 12101 ;* Clanwilliam, *b. d. Byl 770 ;* Steenbras Rivier, *v. d. Byl 460 ;* Ceres, *Leslie* (v. d. Byl 461, det. Vain.) ; Stellenbosch, *de Vries* (v. d. Byl 563) ; near Cape Cross, *Schultze 28, 29, 53 b ;* Montagu, *v. Huysteen* (Stell. 568) ; Simonsberg, *Barnard* (S. A. M. 39220) ; Paarlberg (S.A.M. 46861).

Var. **diachrosta** Stirt.

Stirton (1877) 215 ; Zahlbruckner, Cat. Lich. VI : 273.
on rocks, ? Boschberg, *MacOwan*.

Var. **pachythalla** Nyl.

apud Hue (1890) 292 ; Zahlbruckner, Cat. Lich. VI : 273.
Parmelia pachythalla Spreng. apud Nylander (1860 a) 399.
on rocks, without locality, *Pappe 14* (S.A.M. 46873) ; Devils Peak, *Pappe* (S.A.M. 46874) ; on trunks of trees, without locality, *Pappe 15* (S.A.M. 46875).

Var. **phalacra** Zahlbr.

Zahlbruckner, Cat. Lich. VI : 273.
Omphalodium hottentottum Flotow. var. *phalacrum* Hue (1900) 110.
on rocks, South Africa, without locality.

Parmelia hypocraea Wain.

Wainio (1901) 400 ; Zahlbruckner, Cat. Lich. VI : 169.
on bark of Leguminous tree, in dense forest, near Monino River, Huila, *Welwitsch 32 pr.p.* Type.

Parmelia hypoleia Nyl.

Nylander (1860) 393, (1869 b) 293 ; Stizenberger (1890) no. 278 ; Hue (1890) 290, (1899) 143 ; Zahlbruckner, Cat. Lich. VI : 138.

Parmelia mutabilis Taylor (1847) 171, non Fries ; Lindsay (1859) 219 ; Nylander (1860 a) 387, (1869 b) 293 ; J. Müller-Arg. (1880) 200 ; Hue (1890) 288.

Parmelia phaeophana Stirt. var. *stenotera* Stirton (1877) 215.

Omphalodium mutabile Minks (1900) 86.

on rocks, Cape of Good Hope, *Wawra ;* Orange Free State, *Rehmann ;* (?) Boschberg, *MacOwan*, 94, 95 ; Uitenhage, *Zeyher* (Herb. Hook.) ; Cape, without locality, (Lichenoth. univ. 65 ; S.A.M. 46972).

Var. **crenata** Nyl.

Nylander (1860 a) 393 ; Hue (1890) 290 ; Zahlbruckner, Cat. Lich. VI : 138.

Parmelia hypoleia f. *crenata* Nyl., Stizenberger (1890) no. 278.

on rocks, Cape, *Gueinzius*.

Var. **tenuifida** Nyl.

Nylander (1860 a) 393 ; Stizenberger (1890) no. 278 ; Hue (1890) 280 ; Zahlbruckner, Cat. Lich. VI : 138.

on rocks, Cape of Good Hope, *Gueinzius*.

Parmelia hypoleioides Vain.

Vainio (1926) 1 ; van der Byl (1931) 13 ; Zahlbruckner, Cat. Lich. VIII : 560.

on rock, Paarl Rock, *v. Velden* (v. d. Byl 334) Type.

Parmelia hyporysalea Vain.

Vainio (1921) 47 ; Zahlbruckner, (1926 b) 533, 534, Cat. Lich. VI : 240.

Parmelia olivetorum Nyl. var. *hyporysalea* Wainio (1901) 399.

on branches of shrubs, in high mountain region, Morro de Lopollo, *Welwitsch 6, 27 ;* on old trunks of trees in dense forest, Great Hippopotamus Lake, Invantâla, *Welwitsch 26* on branches of trees, on rock summit of Serra da Xella Mts., *Welwitsch 28*

Parmelia imitans (Müll. Arg.) Gyeln. f. **protoimbricatoides** Gyeln.

Gyelnik (1934) 156.

Montagu Pass, *Breutel* (sub *P. conspersa* var., Herb. Bouly de Lesdain), Type.

Parmelia insignata Stizenb.

Stizenberger (1860) 162, no. 324 ; Zahlbruckner, Cat. Lich. VI : 169.

on ground, summit of Lion's Head, *MacOwan*, Type.

Parmelia interrupta Stizenb.

Stizenberger (1890) 154, no. 273 ; Zahlbruckner, Cat. Lich. VI : 140.

on rocks, near Ceres, in Warm Bokkeveld, *MacOwan*, Type.

Parmelia isidiza Nyl.

Nylander (1884) 130, (1885) 612 ; Hue (1890) 286 ; van der Byl (1931) 14 ; Zahlbruckner, Cat. Lich. VI : 170.

on branches of **Strychnos** sp., Matopos, *v. d. Byl 166* (det. Vain.) ; on **Euphorbia** sp., Bot Gard., Durban, *v. d. Byl 15* (det. A. L. Sm.).

Parmelia Junodii Steiner

Steiner (1907) 640 ; Zahlbruckner, Cat. Lich. VI : 170.
on bark, Mt. Mamotsuiri, *Junod 978* (Herb. Barbey Boissier).

Parmelia laevigata (J. E. Sm.) Ach.

Nylander (1869 a) 6 ; Stizenberger (1890) no. 307 ; Zahlbruckner, Cat. Lich. VI : 171.
on tree trunks, Transvaal ; Natal, *Armstrong*.

Parmelia latissima Fée

Zahlbruckner, Cat. Lich. VI : 241.
on **Acacia Karroo** Haynes, Kentani, *Pegler 1231*, 97.

Parmelia laxa (Müll. Arg.) Gyeln. f. **lacinulata** Gyeln.

Gyelnik (1934) 159.
Outeniqua, *Breutel* (sub. *P. conspersa* in Herb. Bouly de Lesdain).

Parmelia lecanoracea Müll. Arg.

J. Müller-Arg. (1888) 529 ; Stizenberger (1890) no. 319 ; Wainio (1900) 4 Zahlbruckner, Cat. Lich. VI : 173.
on rocks, near Aris Drift, Orange River, *Schenck*.

Parmelia lichinoidea Nyl.

Crombie (1876 a) 169, (1876 b) 19 ; Stizenberger (1890) no. 341 ; Hue (1890 291 ; Zahlbruckner, Cat. Lich. VI : 95.
amongst mosses on ground, top of Table Mt., *Eaton*, Type.

Parmelia lugubris Pers.

Stizenberger (1890) no. 346 ; Zahlbruckner, Cat. Lich. VI : 243.
Table Mt., *Rehmann*.

Parmelia Macleyana Müll. Arg.

J. Müller-Arg. (1891) 376 ; Wainio (1900) 2 ; Stizenberger (1893) 292*bis* ; Zahlbruckner, Cat. Lich. VI : 243.
on bark, South Africa (Kew) ; " In Africa meridionali capricornica ".

Parmelia majoris Wain.

Wainio (1901) 401 ; Zahlbruckner, Car. Lich. VI : 174.
on branches of trees, on rocky heights of Serra da Xella, *Welwitsch 29*.

Parmelia melancholica Steiner & Zahlbr.

Zahlbruckner (1926 b) 507, Cat. Lich. VI : 95.
on sandstone rocks, Matjesfontein, *Brunnthaler*, Type.

Parmelia molliuscula Ach.

Acharius (1810) 492 ; Nylander (1860 a) 393 ; Crombie (1876 a) 169 ; Stizenberger (1890) no. 277 ; Juel (1918) 51 ; Zahlbruckner (1926 b) 507, Cat. Lich. VI : 71.
Parmelia conspersa var. *stenophylla* Ach., Stizenberger (1890) no. 259.
on rocks and on ground, Masterberg, near Saldanha Bay, *Drège 16* ; Cape, *Thunberg* ; Table Mt., *Eaton* ; Klein Vis Rivier, *MacOwan*, 98.

Parmelia molybdiza Nyl.

apud Crombie (1876 a) 167, (1876 b) 19 ; Stizenberger (1890) no. 306 ; Hue (1890) 284 ; Zahlbruckner (1932) 254, Cat. Lich. VI : 176.
on rocks, Table Mt., *Eaton*, Type ; Gouritz River, *v. d. Byl 289.*

Parmelia Mougeotii Schaer.

Nylander (1860 a) 392, (1868) 4, (1869 a) 6 ; Massalongo (1861) 50 ; Stizenberger (1890) no. 271 ; Zahlbruckner, Cat. Lich. VI : 142.
on rocks, Cape, *Wawra ;* Durban, *Armstrong.*

Var. **dealbata** Massal.

Massalongo (1861) 50 ; Zahlbruckner, Cat. Lich. VI : 144.
on quartzite and volcanic rocks, Cape, *Wawra.*

Var. **obscurata** Müll. Arg.

Zahlbruckner, Cat. Lich. VI : 144.
Parmelia Mougeotina Nyl., Wainio (1901) 401.
on sandstone rocks, in high mountain region, Morro de Lopollo, *Welwitsch 53, 54 pr. p.*

Parmelia namaënsis Steiner & Zahlbr.

Zahlbruckner (1926 b) 508, Cat. Lich. VI : 96.
on granite, Haifischinsel off Lüderitzbucht, *Fincke*, Type.

Parmelia natalensis Steiner & Zahlbr.

Zahlbruckner (1926 b) 515, Cat. Lich. VI : 245.
on **Podocarpus** sp., van Reenen's Pass, *Brunnthaler*, Type.

Parmelia nilgherrensis Nyl.

Stizenberger (1890) no. 297 ; Zahlbruckner, Cat. Lich. VI : 246.
on bark, Natal, *Rehmann.*

Parmelia nitens Müll. Arg.

J. Müller-Arg. (1894) 255 ; Wainio (1900) 3, (1901) 399 ; Zahlbruckner, Cat. Lich. VI : 246.
on schistose-sandstone rocks, in high forest, Morro de Lopollo, *Welwitsch 25.*

Parmelia oleagina Stizenb.

Stizenberger (1890) 163, no. 333 ; Zahlbruckner, Cat. Lich. VI : 96.
on ground, near Lydenburg, *MacLea*, Type (Herb. Rehmann).

Parmelia olivacea Nyl.

Zahlbruckner, Cat. Lich. VI : 96.
? *Parmelia olivacea* Ach., Drège (1843) 86.
? Paarlberg, *Drège.*

Parmelia olivaria (Ach.) Th. Fr.

Steiner (1907) 640 ; Zahlbruckner, Cat. Lich. VI : 247.
Parmelia olivetorum (Ach.) Nylander (1869 a) 6.
on bark, Stellenbosch, *Duthie 10 ;* Durban, *Armstrong.*

Parmelia omphalodes Ach. var. **panniformis** Ach.

Zahlbruckner, Cat. Lich. VI : 181.

Parmelia omphalodes var. *panniformis* Ach. f. *crinalis* Hepp.. Stizenbrger (1890) no.

on rocks, top of Table Mt.

Parmelia Owaniana Stirt.

Stirton (1877) 213 ; Zahlbruckner, Cat. Lich. VI : 273.

Boschberg, *MacOwan*, Type.

Parmelia perfissa Steiner & Zahlbr.

Zahlbruckner (1926 b) 519 ; Cat. Lich. VI : 183.

on red sandstone, on a hill east of Port Elizabeth, *Brunnthaler*.

Parmelia perforata (Wulf) Ach.

Acharius (1803) 270 : Drège (1843) 80, 85, 89, 130, 132, 146, 159 ; Nylander (1860 a) 377, (1869 a) 6 ; Crombie (1876 a) 167 : Stirton (1877) 212 ; Stizenberger (1890) no. 280 ; Juel (1918) 50 ; Zahlbruckner, Cat. Lich. VI : 249.

Lichen perforatus Wulf, Thunberg (1800) 178, (1823) 746.

Parmotrema perforata Massalongo (1861) 54.

on trunks of trees, Cape, *Thunberg ;* Table Mt., *Drège, Eaton ;* Klein Vis Rivier, *MacOwan 505* (S.A.M. 46945) 99, 100 ; in hills above Maritzburg, *Rehmann ;* Durban, *Armstrong ;* amongst mosses, Bazuja, *Baur* (MacOwan 1125) ; Kentani, *Pegler* (S.A.M. 46945) ; du Toits Kloof, *Drège ;* Paarlberg, *Drège ;* Zwartkopsrivier, *Drège ;* Samteesvlakte, *Drège ;* between ' Key ' and ' Basche ', *Drège ;* in bush ' auf der Höhe Omblas ', *Drège.*

Var. **ciliata** Nyl.

Nylander (1860 a) 377 ; Stizenberger (1890) no. 280 ; Zahlbruckner, Cat. Lich, VI : 252.

? *Parmelia perforata* f. *ciliata* Flotow, von Flotow (1843) 29 ; Krauss (1846) 201.

on granite rocks, Lion's Head, *MacOwan ;* Transvaal, *Wilms ;* ? on bark of **Gymnosporia**. Swellendam, *Krauss.*

Parmelia perisidiosa Nyl.

apud Stizenberger (1890) 153, no. 266, nom. nud. ; Hue (1890) 289, nom. nud. ;

Zahlbruckner, Cat. Lich. VI : 144.

Cape of Good Hope, *Drège.*

Parmelia perlata (Hudson) Ach.

Nylander (1860 a) 379 ; van der Byl (1931) 14 ; Zahlbruckner, Cat. Lich. VI : 253.

on dead wood, Makoni *Eyles 823* (v. d. Byl 558) ; Matopos, *Borle 54* a. 102 ; Kentani, *Pegler* (S.A.M. 46944) ; Uitenhage, *Pappe 16* (S.A.M. 46876).

Var. **ciliata** Duby f. **sorediifera** Müll. Arg.

J. Müller-Arg. (1893 a) 510, (1891) 382 ; Zahlbruckner, Cat. Lich. VI : 259.

Parmelia perlata f. *sorediifera* Stizenberger (1890) 382, o. 282.

on rocks, Pondoland, *Bachmann.*

Parmelia perplexa Stizenb.

Stizenberger (1890) no. 331 ; Zahlbruckner, Cat. Lich. VI : 144.

on sandstone rocks, Warm Bokkeveld Mts., near Ceres, *MacOwan*, Type.

Parmelia perrugata Nyl.

Stizenberger (1890) no. 331 ; Zahlbruckner, Cat. Lich. VI : 102.

(?) on rocks, Brakfontein, *Ecklon ;* (identification somewhat doubtful, Stizenberger, l.c.).

Parmelia perspersa Stizenb.

Stizenberger (1890) 152, no. 262 ; Zahlbruckner, Cat. Lich. VI : 144.

on sandstone rocks, Lion's Head, *MacOwan,* Type.

Parmelia persulphurata Nyl.

Stizenberger (1890) no. 256 ; Zahlbruckner, Cat. Lich. VI : 261.

on branches of trees, between Komati and Sand Rivers, *Wilms.*

Parmelia physodes (Linn.) Ach.

Juel (1918) 50 ; Zahlbruckner, Cat. Lich. VI : 36.

Lichen physodes Linn., Thunberg (1800) 177, (1923) 744.

on bark, Cape, *Thunberg.*

Parmelia pilosa Stizenb.

Stizenberger (1890) 165, no. 342; Zahlbruckner, Cat. Lich. VI: 184.

on rocks, Taaiboschkrantz, near Rhenoster River, Orange Free State, *Rehmann,* Type.

Parmelia pilosella Hue

Steiner (1907) 641 ; Zahlbruckner, Cat. Lich. VI : 184.

on bark, Mt. Mamotsuiri, *Junod 979 pr. p., 985 pr. p.*

Parmelia proboscidea Tayl.

van der Byl (1931) 14 ; Zahlbruckner, Cat. Lich. VI : 262.

on rock, Marandellas, *Eyles 3882* (v. d. Byl 551, det. Vain.) ; Garcia's Pass, *J. Muir 3767,* 1395.

Var. **sorediifera** Müll. Arg.

Steiner (1907) 641 ; Zahlbruckner, Cat. Lich. VI : 263.

on bark, Mt. Mamotsuiri, *Junod 976, 979 pr. p., 984 pr. p.*

Parmelia prolixa (Ach.) Röhl.

Stizenberger (1890) no. 330 ; Zahlbruckner, Cat. Lich. VI : 103.

on rocks, Cape, *Ecklon.*

f. **dendritica** Nyl.

Nylander (1868) 4 ; Wainio (1901) 402 ; Stizenberger (1890) no. 330 ; Zahlbruckner, Cat. Lich. VI : 105.

on quartzite rocks, on high tableland between Caraca and Cazimba, *Welwitsch 48. 49.*

Var. **applicata** Stizenb.

Stizenberger (1890) 163, no. 330 ; Zahlbruckner, Cat. Lich. VI : 106.

on sandstone rocks, in mountains, around Cape Town, *MacOwan,* Type.

Parmelia prolixula Nyl.

apud Crombie (1876 a) 169, (1876 b) 19 ; Stizenberger (1890) no. 338 ; Hue (1890) 291 ; van der Byl (1931) 14; Zahlbruckner, Cat. Lich. VI : 107.
on rocks, Table Mt., *Eaton*, Type ; Ceres, *Leslie* (v. d. Byl 467, 472, det. Vain.).

Parmelia pseudoconspersa Gyeln.

Gyelnik (1934) 162.
Montagu Pass, *Breutel* (Herb. Bouly de Lesdain, sub *Parmelia, Imbricaria conspersa* var. *degenerante isidiofera*)'.

Parmelia quercina Wain.

Zahlbruckner, Cat. Lich. VI : 186.
Parmelia tiliacea Ach., Nylander (1869 a) 6 ; Stizenberger (1890 & 1895) no. 301.
on bark, Durban, *Armstrong*.

f. **cupiseda** Vain.

van der Byl (1931) 14, ? nom. nud.
on rock, Caledon, *v. d. Byl 366, 368* (det. Vain.).

Var. **rimulosa** Zahlbr.

Zahlbruckner, Cat. Lich. VI : 191.
Parmelia tiliacea var. *rimulosa* Müll. Arg., J. Müller-Arg. (1893) 296 ; Schinz (1905) 393.
near Boroma, *Menyharth 458*.

Parmelia resupina Stirt

Stirton (1878) 298 ; Zahlbruckner, Cat. Lich. VI : 264.
on branches, near Knysna, *J. B. Knobel*, Type.

Parmelia reterimulosa Steiner & Zahlbr.

Zahlbruckner (1926 b) 520, Cat. Lich. VI : 192.
on rocks, van Reenen's Pass, *Brunnthaler*, Type.

Parmelia reticulata Tayl.

Zahlbruckner, Cat. Lich. VI : 192.
Parmelia cetrata Ach. f. *sorediifera* Wain., J. Müller-Arg. (1893 a) 510. Stizenberger (1895) no. 280.
on tree trunks, Pondoland, *Bachmann*.

Parmelia revoluta Floerke.

Stirton (1877) 212 ; Stizenberger (1890) no. 302 ; Zahlbruckner, Cat. Lich. VI : 193.
Parmelia tiliacea var. *revoluta* Krempelh., Nylander (1869 a) 6.
on bark, Durban, *Armstrong ;* (?) Cape, *MacOwan*.

Parmelia rudecta Ach.

Stizenberger (1890) 161, no. 321 ; Hue (1890) 286, (1899) 152 ; Zahlbruckner, Cat. Lich. VI : 197.
Parmelia laceratula Nyl. f. *phricoides* Stirton (1877) 213.

on bark, Cape, *Drège, Breutel, Rehmann ;* Natal, *Rehmann ;* on trunks of trees, Boschberg *MacOwan & Tuck* (MacOwan 500) 105, and *MacOwan*, 96; on ground, Devils Peak, *Pappe 17* (S.A.M. 46882).

var. **microphyllina** Nyl.

Zahlbruckner, (1926 b) 522, Cat. Lich. VI : 198.
on schistose rocks, Wasserberg near Windhoek, *Fincke.*

Parmelia saxatilis (Linn.) Ach.

Drège (1843) 80 ; Nylander (1860 a) 388, (1869 a) 6 ; Stizenberger (1890) no. 325; Zahlbruckner, Cat. Lich. VI : 198.
on bark and on rocks, du Toits Kloof, *Drège ;* Durban, *Armstrong ;* Paarl, *Pappe* (S.A.M. 46877).

Parmelia saxeti Stizenb.

Stizenberger (1890) 153, no. 268 ; Zahlbruckner, Cat. Lich. VI : 146.
on basalt rocks, Lebombo Mts., *Wilms*, Type.

Parmelia Schenckiana Müll. Arg.

J. Müller-Arg. (1888) 529 ; Stizenberger (1890) 151, no. 258 ; Zahlbruckner (1926 b) 509, (1932) 253, Cat. Lich. VI : 146 ; Gyelnik (1938) 288.
Parmelia Schenckiana f. *perfecta* Gyelnik l.c.
on quartzite rocks, near Obib, Orange River, *Schenck*, Type ; Steinkopf Mt., *Meyer* (v. d. Byl 956) ; on rocks, Masterberg, near Saldanha Bay, *Drège 19* (Herb. Palat. Vindob.) ; on sandstone Matjesfontein, *Brunnthaler ;* on schistose rocks, Haifischinsel Lüderitzbucht, *Fincke ;* near Windhoek, *Fincke.*

f. **imperfecta** Gyeln.

Gyelnik (1938) 289.
on stone, between Brandvlei and Tontelboskook, Calvinia, *v. d. Byl 1127 ;* Sutherland Distr., *v. d. Byl 1071.*

Var. **chalybaeizana** Steiner & Zahlbr.

Zahlbruckner (1926 b) 510, (1932) 253, Cat. Lich. VI : 146.
on sandstone rocks, Matjesfontein, *Brunnthaler*, Type ; South West Africa, *F. & R. Wettstein*; Rooidam, Calvinia, *v. d. Byl 1121 ;* between Calvinia and Middelpos, *v. d. Byl 1099* ; Laingsburg, *v. d. Byl 1092 ;* without locality, *de Boers* (v. d. Byl 0186).

Parmelia Schreuderiana Gyeln.

Gyelnik (1938) 270.
Parmelia Bylii Gyelnik in Herb., non Vain.
on stone, Lokenburg, Calvinia, *v. d. Byl 1197*, Type ; Namaqualand, *v. d. Byl 1208 ;* Piquetberg, *du Plessis* (v. d. Byl 1034) ; nr. Barrydale, *Steyn* (v. d. Byl 1213).

Parmelia scortea Ach.

Drège (1843) 89 ; Zahlbruckner, Cat. Lich. VI : 207.
Parmelia tiliacea var. *scortea* Duby, J. Müller-Arg. (1893 b) 296.
near Boroma, *Menyharth 474 ;* Table Mt., in damp places, *Drège.*

Parmelia sinuosa Ach.

Massalongo (1861) 50 ; Nylander (1869 b) 292 ; Stizenberger (1890) no. 311 ; Zahlbruckner, Cat. Lich. VI : 211.
amongst mosses and liverworths, Cape, *Wawra.*

Parmelia soredians Nyl.

Zahlbruckner, Cat. Lich. VI: 146.
on trunk of **Pinus** sp., Klapmuts, *v. d. Byl 130* (det. Vain.) ; on trunk of **Quercus** sp., Klapmuts, *v. d. Byl 133* (det. Vain.).

Parmelia sphaerospora Nyl.

Nylander (1859) 254, (1860 a) 376 ; Hue (1890) 279 ; Stizenberger (1890) no. 253 ; Zahlbruckner, Cat. Lich. VI : 147.
on bark of trees, Cape of Good Hope.

Parmelia squamans Stizenb.

Stizenberger (1890) 164, no. 339 ; Zahlbruckner, Cat. Lich. VI : 113.
on ground, near Lydenburg, *McLea*, Type (Herb. Rehmann).

Parmelia squamariata Nyl.

apud Crombie (1876 a) 168, (1876 b) 19 ; Stizenberger (1890) no. 274 ; Hue (1890) 290 ; Zahlbruckner, Cat. Lich. VI : 147.
on rocks, Table Mt., *Eaton*, Type.

f. **cinerascens** Nyl.

apud Crombie (1876 a) 169 ; Stizenberger (1890) no. 274 ; Hue (1890) 290 ; Zahlbruckner, Cat. Lich. VI : 147.
on rocks, Table Mt., *Eaton*, Type.

Parmelia Standaertii Gyeln. var. **africana** Gyeln.

Gyelnik (1934) 164.
near Adelaide, *Miss Ringon*, Type (sub *P. conspersa*, ? Herb. Bouly de Lesdain 859).

Parmelia Steineri Gyeln.

Gyelnik (1938) 289.
on the ground, Wolseley, *v. d. Byl 1141*, Type.

Parmelia stenophylla (Ach.) du Rietz f. **hypomelaena** Vain.

apud Lynge (1937) 89.
on rocks, Ceres, *Leslie*, Type.

Parmelia stenophylloides (Müll. Arg.) Wain.

Zahlbruckner (1932) 253, Cat. Lich. VI : 148.
on quartz rocks, Muizenberg, *v. d. Byl 1007*.

Parmelia subaequans Nyl.

apud Crombie (1876 a) 167, (1876 b) 19 ; Stirton (1877) 213 ; Hue (1890) 287 ; Stizenberger (1890) no. 323 ; Zahlbruckner, Cat. Lich. VI : 148.
amongst mosses, on trunks of trees, Table Mt., *Eaton*, Type, *Drège*.

Parmelia subcaperatula Nyl.

Stizenberger (1890) no. 255 ; Zahlbruckner, Cat. Lich. VI : 266.
on branches of trees, Krugerspost near Lydenburg, *Wilms*.

Parmelia subconspersa Nyl.

Crombie (1876 a) 168 ; Stizenberger (1890) no. 265 ; van der Byl (1931) 14 ; Gyelnik (1934) 164.

Parmelia conspersa var. *subconspersa* Steiner, Zahlbruckner (1926 b) 507 ; (1932) 253, 253, Cat. Lich. VI : 134.

on rocks, Cape, Natal, Transvaal ; Haifischinsel off Lüderitzbucht, *Fincke ;* near Windhoek, *Fincke ;* near Worcester, *Brunnthaler ;* Salisbury, *Eyles* (v. d. Byl 627) ; Waterfall, Knysna, *v. d. Byl 928 ;* Karata River, *v. d. Byl 856 ;* Bloukrans River, *v. d. Byl ;* Table Mt., *Eaton ;* Makoni, *Eyles* (v. d. Byl 562, det. Vain.)'

f. **lobulifera** Gyeln.

Gyelnik (1938) 290.

between Bitterfontein and Garies, *v. d. Byl 1178*, Type..

Var. **africana** Gyeln.

Gyelnik (1934) 164.

near Adelaide, *Miss Ringon*, Type.

Parmelia subcrustacea Gyeln.

Gyelnik (1938) 291.

on stone, Jau, *de Boers* (v. d. Byl 1083), Type.

Parmelia subdecipiens Vain.

apud Lynge (1937) 89.

on rocks, Klapmuts, *v. d. Byl 125*, Type.

Parmelia subflabellata Steiner.

Steiner (1907) 639 ; Zahlbruckner, Cat. Lich. VI : 266.

on ground, Stellenbosch, *Duthie 7* (Herb. Barbey-Boissier), Type.

Parmelia sublaevigata Nyl.

Nylander (1869 a) 6, (1869 b) 292, (1885) 611 ; J. Müller-Arg. (1888) 198 ; Stizenberger (1890) no. 308 ; Hue (1890) 284, (1899) 169 ; Zahlbruckner, Cat. Lich. VI : 213.

on bark, Durban, *Armstrong*.

Parmelia subquercina Müll. Arg.

J. Müller-Arg. (1891) 377 ; Stizenberger (1893) no. 303*bis* ; Zahlbruckner, Cat. Lich. VI : 215.

on rocks, South Africa, *MacOwan*.

Parmelia subrudecta Nyl.

Stizenberger (1890) no. 322 ; Zahlbruckner, Cat. Lich. VI : 215.

on trunks of trees, in mountains near Krakakama, *Ecklon, Breutel*.

Parmelia subschenckiana Gyeln.

Gyelnik (1938) 291.

on stone, Lokenburg, Calvinia, *v. d. Byl 1140*, Type.

Parmelia subsinuosa Nyl.

Stizenberger (1890) no. 313 ; Zahlbruckner, Cat. Lich. VI : 215.
on mosses, near Lydenburg, *Wilms*.

Parmelia suffixa Stirt.

Stirton (1878) 299 ; Zahlbruckner, Cat. Lich. VI : 216.
on bark, near Knysna, *Knobel*, Type.

Parmelia synestia Stirt.

Stirton (1877) 214 ; Zahlbruckner, Cat. Lich. VI : 148.
on mossy rocks, Cave Mountain, Graaff Reinet, *McLea*, Type.

Parmelia terricola Steiner & Zahlbr.

Zahlbruckner (1926 b) 510, Cat. Lich. VI : 148.
on ground, on a hill near Port Elizabeth, *Brunnthaler*, Type ; Cape, without locality, *v. d. Byl 1222*.

Parmelia texana Tuckerm.

Stirton (1877) 212 ; Stizenberger (1890) no. 309 ; Zahlbruckner, Cat. Lich. VI : 220.
South Africa, without locality.

Parmelia tinctorum Despr.

Stizenberger (1895) no. 300 ; Steiner (1907) 640 ; Zahlbruckner (1932) 254, Cat. Lich. VI : 268.
Parmelia praetervisa Müll. Arg., J. Müller-Arg. (1893 b) 295 ; Schinz (1905) 393.
on bark of trees, Mt. Mamotsuiri, *Junod 984 pr. p., 979 pr. p., 975 pr. p. ;* near Boroma, *Menyharth 268 ;* near Lydenburg, *Neethling* (v. d. Byl 1048) ; on rocks, Groot Rivier, Knysna, *v. d. Byl 842*.

Parmelia toxodes Stirt.

Stirton (1878) 253 ; Zahlbruckner, Cat. Lich. VI : 220.
on mosses, South Africa, without locality.

Parmelia van der Bylii Zahlbr.

Zahlbruckner (1932) 252.
on non-calcareous rocks, van Rhyn's Pass, *v. d. Byl 760*, Type.

Parmelia verruculifera Nyl.

Steiner (1907) 641 ; Zahlbruckner, Cat. Lich. VI : 119.
on rocks, Stellenbosch, *Duthie 3*.

Parmelia Worcesteri Steiner & Zahlbr.

Zahlbruckner (1926 b) 511, Cat. Lich. VI : 149.
on schistose rock, on a hill north of the town, Worcester, *Brunnthaler*, Type.

Parmelia xanthotropa Stirt.

Stirton (1878) 202 ; Zahlbruckner, Cat. Lich. VI : 149.
(?) on rocks, near Somerset East, *MacOwan*, Type.

Parmelia zambesica Müll. Arg.

J. Müller-Arg. (1893 b) 296 ; Zahlbruckner, Cat. Lich. VI : 271. Stizenberger (1895) 285 *ter ;* Schinz (1905) 393.
on bark, near Boroma, *Menyharth 268, 269, 475.*

Parmelia zollingeri Hepp.

J. Müller-Arg. (1893 b) 296 ; Zahlbruckner, Cat. Lich. VI : 271.
on bark, near Boroma, *Menyharth 268, 269, 475.*

USNEACEAE.

Alectoria chalybeiformis (Linn.) Röhl. f. **terrestris** Stizenb.

Stizenberger (1890) 149, no. 244 ; Zahlbruckner, Cat. Lich. VI : 383.
on clayey ground, Franskraal, near Smithfield, *Orpen* (S.A.M. 46939) 1.

Alectoria jubata Ach.

Zahlbruckner, Cat. Lich. VI : 389.
on bark, Smithfield, *Orpen* (S.A.M. 46938).

Cornicularia tenuissima (Linn.) Zahlbr.

Zahlbruckner, Cat. Lich. VI : 420.
Cetraria aculeata (Schreb.) Fr., Stizenberger (1890) no. 238.
on ground, Cape, *Breutel ;* Lion's Head, *MacOwan*, 73.

Dufourea physcioides Massal.

Massalongo (1861) 83 ; Zahlbruckner, Cat. Lich. VI : 370.
on branches of a tree, Cape, *Breutel.*

Ramalina angulosa Laur.

apud Th. Fries (1861) 411 ; Drège (1843) 94 ; Nylander (1870) 115 ; Hue (1890) 261 ; Stizenberger (1890) no. 169 ; van der Byl (1935 a) 6 ; Zahlbruckner, Cat. Lich. VI : 436.
Ramalina capensis var. *angulosa* Th., Fries (1861) 411.
Cape of Good Hope, *Ecklon ;* Garip, near mouth of Orange River, *Drège.*

Ramalina arabum (Ach.) Mey. & Flotow

Nylander (1870) 113 ; Hue (1890) 261 ; Stizenberger (1890) no. 166 ; van der Byl (1935 a) 5 ; Zahlbruckner, Cat. Lich. VI : 438.
on tree trunks and rocks, Cape of Good Hope.

Ramalina arbuscula Stizenb.

Stizenberger (1890) 141, no. 202 ; van der Byl (1935 a) 6 ; Zahlbruckner, Cat. Lich. VI : 438.
on rocks, Muizenberg, *MacOwan.*

Ramalina Bourgeana Nyl.

Zahlbruckner, Cat. Lich. VI : 441.
Ramalina Webbii Mont. var. *capensis* Massalongo (1861) 46.
on rocks, Cape of Good Hope, *Wawra.*

Ramalina calicaris (Linn.) Röhl.

Nylander (1869 a) 6 ; Stizenberger (1890) no. 177 ; van der Byl (1931) 14, (1935 a) 11 ; Zahlbruckner, (1932) 254, Cat. Lich. VI : 442.

on branches, Durban, *Armstrong ;* Brenton, Knysna, *v. d. Byl 687 ;* Umtali, *Eyles 1727* (v. d. Byl 555) 134 ; on branches of **Canthium** sp., Knysna, *v. d. Byl.*

Ramalina complanata (Sw.) Ach.

Drège (1843) 85, 94, 95, 108, 132 ; Stizenberger (1890) no. 175 ; J. Müller-Arg. (1893 b) 295 ; Schinz (1905) 393 ; van der Byl (1935 a) 8 ; Zahlbruckner (1932) 254, Cat. Lich. VI : 542.

on branches, Transvaal, *Wilms ;* Cape, *Ecklon, Rehmann ;* near Boroma, *Menyharth 464 ;* Kaaimansrivier, *v. d. Byl 851 ;* The Heads, Knysa, *v. d. Byl 910 pr. p. ;* Paarlberg, *Drège ;* Garip, near mouth of Orange River, *Drège ;* on dry stony hills, Ebenezar, *Drège ;* Samteesvlakte, *Drège.*

Ramalina cuspidata (Ach.) Nyl.

Nylander (1870) 158 ; Crombie (1876 a) 167 ; Stizenberger (1890) no. 201 van der Byl (1935 a) 9 ; Zahlbruckner, Cat. Lich. VI : 455.

on rocks, Table Mt., *Eaton.*

f. **implexa** Oliv.

Zahlbruckner, Cat. Lich. VI : 456.

Ramalina scopulorum Ach. var. *implexa* Nylander (1860 a) 293.

? as *Ramalina implexa* Laur., Stizenberger (1890) no. 181.

on maritime rocks, Cape of Good Hope, *? Drège.*

Ramalia dendriscoides Nyl.

Wainio (1901) 397 ; Zahlbruckner, Cat. Lich. VI : 459.

on calcareous rocks, on sea shore near Saco de Giraul, Mossamedes, *Welwitsch 24.*

Ramalina denticulata (Eschw.) Nyl.

Stizenberger (1890) no. 174 ; van der Byl (1935 a) 8 ; Zahlbruckner, Cat. Lich. VI : 459.

on bark, Table Mt., *MacOwan.*

Ramalina Duriaei Jatta

Zahlbruckner, Cat. Lich. VI : 462.

Ramalina evernoides Nyl., Stizenberger (1890) no. 193 ; van der Byl (1935 a) 7.

on trunks, near Lydenburg, *Wilms.*

Ramalina Euphorbiae Wain.

Wainio (1901) 398 ; Zahlbruckner, Cat. Lich. VI : 463.

on fleshy stems of **Euphorbia decumbens** Welw., on coastal hills near Mossamedes, *Welwitsch 23.*

Ramalina farinacea (Linn.) Ach.

Drège (1843) 132 ; Stizenberger (1890) no. 178 ; van der Byl (1935 a) 7 ; Zahlbruckner, Cat. Lich. VI : 464.

on tree trunks, South Africa, *Baur, Wilms ;* eastern Cape, *Rand* (v. d. Byl) ; Samteesvlakte, near Enon, *Drège.*

Var. **squarrosa** Müll. Arg.

Stizenberger (1890) no. 178 ; van der Byl (1935 a) 7 ; Zahlbruckner, Cat. Lich. VI : 472

on bark, Transvaal, *Wilms*.

Ramalina fastigiata Ach.

van der Byl (1935 a) 11 ; Zahlbruckner, Cat. Lich. VI : 472.

Lichen fastigiatus Pers., Thunberg (1800) 179, (1823) 747.

Parmelia fastigiata Ach., van der Byl (1931) 13.

Ramalina fraxinea Ach. var. *fastigiata* Fr., Juel (1918) 49.

on branches of trees, Cape, *Thunberg ;* Kentani, *Pegler* (S.A.M. 46946) ; Humansdorp, *Woodcock* (S.A.M. 46931) ; Umtali, *Eyles 4293* (v. d. Byl 572, det. A. L. Sm.).

Ramalina fraxinea (Linn.) Ach.

Acharius (1810) 602, (1814) 296 ; Stizenberger (1890) no. 183 ; van der Byl (1935 a) 11 ; Zahlbruckner, Cat. Lich. VI : 478.

Lichen fraxineus Linn., Thunberg (1800) 179, (1823) 747.

Parmelia fraxinea Acharius (1803) 258.

on branches, Cape, *Thunberg*, *Wawra*.

Ramalina geniculata Hook. f. & Tayl.

van der Byl (1931) 14, (1935 a) 4 ; Zahlbruckner, Cat. Lich. VI : 490.

on trunk of **Acacia mollissima** Willd., Woodbush, v, *d. Byl 512* (det. Vain.) ; on trunk of **Ocotea bullata** E. Mey., Knysna, *v. d. Byl 261* (det. Vain.) ; on trunk of tree undet., Onrust, *van der Riet* (v. d. Byl 324, det. Vain.).

Var. **olivacea** Müll. Arg.

Zahlbruckner (1932) 255, Cat. Lich. VI : 490.

? as *Ramalina geniculata* f. *tenuis* Hue, van der Byl (1935 a) 4.

on bark of **Rhus glauca** Desf., Platbos near Stilbaai, *Muir* (v. d. Byl 965).

Ramalina gracilis (Pers.) Nyl.

Nylander (1860 a) 296 ; van der Byl (1931) 14, (1935 a) Zahlbruckner (1932) 254, Cat. Lich. VI : 490.

on branches of **Canthium** sp., Brenton, Knysna, *v. d. Byl 691* ; on branches of tree undet., The Heads, Knysna, *v. d. Byl 910 pr. p.*

Ramalina intermedia Del.

Stizenberger (1890) no. 207 ; van der Byl (1935 a) 5 ; Zahlbruckner, Cat. Lich. VI : 493.

? on branches of trees, Cape of Good Hope : rather doubtful record, Stizenb. l.c.

Ramalina lanceolata Nyl.

Stizenberger (1890) no. 187 ; van der Byl (1935 a) 13 ; Zahlbruckner, Cat. Lich. VI : 495.

? as *Ramalina yemensis* var. *lanceolata* Nyl., van der Byl (1931) 14.

on branches of trees, South Africa, without locality, *Drège*, *Breutel*, *Wilms ;* on **Quercus** sp., Klapmuts, *v. d. Byl 142.*

Ramalina linearis Ach.

von Flotow (1843) 26 ; Krauss (1846) 202 ; Zahlbruckner, Cat. Lich. VI : 497.

on trees, Swellendam, *Krauss*.

Ramalina melanothrix Laur.

apud Nylander (1860 a) 290, (1870) 110 ; Drège (1843) 94 ; Stizenberger, (1890) no. 162 ; Hue (1890) 261 ; van der Byl (1935 a)5 ; Zahlbruckner, Cat. Lich. VI : 499.

Ramalina capensis var. *melanothrix* Th. Fries (1861) 411.

Cape of Good Hope, *Schenck ;* Garip, near mouth of the Orange River, *Drège.*

Ramalina pollinaria Ach.

Drège (1843) 94, 109 ; Zahlbruckner, Cat. Lich. VI : 502.

on dry stony hills, Garip, near mouth of the Orange River, *Drège ;* Ebenezar, *Drège.*

f. **cariosa** Laur.

apud Nylander (1870) 150 ; Hue (1890) 266 ; Stizenberger (1890) no. 190 ; van der Byl (1935 a) 7 ; Zahlbruckner, Cat. Lich. VI : 505.

Cape of Good Hope.

Ramalina pusilla Le Prév.

Stizenberger (1890) no. 204, van der Byl (1931) 14, (1935 a) 4 ; Zahlbruckner, Cat. Lich. VI : 512.

on branches of trees, South Africa, without locality, *Drège, Wawra, Rehmann, Wilms, Breutel, MacOwan ;* on tree trunk, Zululand, *Harris* (v. d. Byl (232) ; on **Acacia mollissima** Willd., Howick, *v. d. Byl 206* (det. Vain.).

Ramalina scopulorum Ach.

Drège (1843) 88 ; Nylander (1860 a) 292 ; Zahlbruckner, Cat. Lich. VI : 515.

on maritime rocks, Cape of Good Hope ; in krantzes, Table Mt., *Drège.*

Var. **cornuta** Ach.

Zahlbruckner, Cat. Lich. VI : 518.

Parmelia capensis Acharius (1803) 269.

Parmelia scopulorum f. *cornuata* Ach., Stizenberger (1890) no. 197 ; van der Byl (1935 a) 10.

Cape of Good Hope, *Drège ;* Löwenberg, *Pappe 8* (S.A.M. 46866).

Var. **humilis** Schaer.

Massalongo (1861) 46 ; Zahlbruckner, Cat. Lich. VI : 518.

on rocks, amongst mosses, Cape of Good Hope, *Wawra.*

Ramalina subfraxinea Nyl.

Nylander (1870) 139 ; Stizenberger (1890) no. 185 ; van der Byl (1935 a) 9 ; Zahlbruckner, Cat. Lich. VI : 523.

on rocks, near Muizenberg, *MacOwan ;* near Lydenburg, *Wilms.*

Ramalina Usnea (Linn.) Howe jr.

Zahlbruckner, Cat. Lich. VI : 526.

Lichen Usnea Linn., Thunberg (1800) 179, (1823) 748.

Alectoria usneoides Ach., Drège (1843) 133.

Ramalina usneoides Mont., Juel (1918) 51.

on trees in woods, Cape, *Thunberg ;* Enon, *Drège ;* Enon, *Pappe* (S.A.M. 47013).

Var. **capensis** (Nyl.) Zahlbr.

van der Byl (1935 a) 10 ; Zahlbruckner, Cat. Lich. VI : 527.

Ramalina usneoides Mont. var. *capensis* Nylander (1870) 123 ; Hue (1890) 262 ; Stizenberger (1890) no. 173.
on branches of trees, Cape of Good Hope, *Drège ;* Gouritz Rivier, *Breutel.*

Var. **contorta** (Flotow) Zahlbr.

van der Byl (1935 a) 10 ; Zahlbruckner, Cat. Lich. VI : 527.
Ramalina usneoides var. *contorta* Flotow apud Stizenberger (1890) 136, no. 173.
on branches of trees, Gouritz Rivier, *Breutel ;* Insiza, *Eyles 2767* (S.A.M. 26545).

Ramalina yemensis (Ach.) Nyl.

Nylander (1870) 144 ; Crombie (1876 a) 167 ; Stirton (1877) 212 ; Stizenberger (1890) no. 186 ; Steiner (1907) 638 ; van der Byl (1931) 14, (1935 a) 12 ; Zahlbruckner (1926 b) 540, Cat. Lich. VI : 528.
on trunks and branches of trees, Table Mt., *Eaton*, *Brunnthaler ;* Stellenbosch, *Duthie 1 pr. p. ;* Hottentot's Holland, *MacOwan* (Lichenoth, univ. 57 ; S.A.M. 47016) ; Piquetberg, *v. d. Byl ;* Kentani, *Pegler* (S.A.M. 46947, 46948) ; Paarl, *Cuff* (v. d. Byl 440, 441, det. Vain.) ; Umtali, *Eyles 4243*, *4290* (v. d. Byl 568, 569, det. A. L. Sm.) ; Blue Lilies Bush, Humansdorp, *Woodcock* (S.A.M. 46932) ; on **Acacia mollissima** Willd., Howick, *v. d. Byl ;* Woodbush, v. d. Byl 496, 511, (det. Vain.) ; on **Podocarpus** sp., van Reenen's Pass, *Brunnthaler ;* on **Quercus** sp., Genadendal, near Caledon, *Brunnthaler ;* Ceres, *Leslie* (v. d. Byl 456, det. Vain.) ; Klapmuts, *v. d. Byl 81* (det. Merrill).

f. **fenestralis** Stizenb.

Stizenberger (1890) 139, no. 186 ; van der Byl (1935 a) 12 ; Zahlbruckner, Cat. Lich. VI : 528.
on bark, Lion's Head, *MacOwan.*

f. **sublinearis** Nyl.

Nylander (1870) 144 ; van der Byl (1931) 14, (1935 a) 12 ; Zahlbruckner, Cat. Lich. VI : 528.
on **Gymnosporia buxifolia** Szysz., Eteza, Zululand, *v. d. Byl 124.*

Var **Ecklonii** (Spreng.) Wain.

van der Byl (1935a) 12; Zahlbruckner, Cat. Lich. VI: 528.
Ramalina Ecklonii Mey. & Flotow (1843) 26 ; Krauss (1846) 202
Ramalina calicaris f. *Ecklonii* Nylander (1860 a) 295, (1868) 51, (1869 a) 6.

on trees, Boschberg, *MacOwan* (S.A.M. 46979, 46980) ; Noordhoek, Cape Peninsula, *Barnard* (S.A.M. 46924) ; Durban, *Armstrong ;* on rocks, Steenberg, *Krauss ;* on bark, near Swellendam, *Krauss.*

Var. **membranacea** (Laur.) Nyl.

Stizenberger (1890) no. 186 ; van der Byl (1931) 14, (1935 a) 13 ; Zahlbruckner (1932) 255, Cat. Lich. VI : 529.
Ramalina membranacea Laur., von Flotow (1843) 26 ; Krauss (1846) 201.
on branches, Karkloof, *Rehmann ;* in trunk of **Acacia mollissima** Willd., Howick, *v. d. Byl 205* (det. Vain.) ; Swellendam, *Krauss ;* on branches of **Canthium** sp., Brenton, Knysna, *v. d. Byl 693.*

Var. **tenuissima** (Mey. & Flotow) Zahlbr.

Zahlbruckner, Cat. Lich. VI : 529.
as *Ramalina yemensis* f. *tenuissima* Müll. Arg., van der Byl (1931) 14, (1935 a) 13.
on bark, The Wilderness, *v. d. Byl 289.*

Siphula ceratites (Sommerf.) Fr.

Zahlbruckner (1932) 255, Cat. Lich. VI : 613.
on rocks, Ceres, *Leslie* (v. d. Byl 615).

Siphula decumbens Nyl.

van der Byl (1931) 14 ; Zahlbruckner, Cat. Lich. VI : 614.
amongst moss, Table Mt., *Eyles* (v. d. Byl 401, det. Vain.).

Siphula Dregei (? author)

Drège (1843) 84 ; ? nom. nud., not mentioned in Zahlbruckner, Cat. Lich.
in the kranz near the waterfall, Simonsberg, *Drège.*

Siphula incrustans Vain.

Vainio (1926) 33 ; van der Byl (1931) 14 ; Zahlbruckner, Cat. Lich. VIII : 581.
on rock, Stellenbosch, *v. d. Byl 349.*

Siphula minor Vain.

van der Byl (1931) 14, ? nom. nud.
on rock, Ceres, *Leslie* (v. d. Byl 449, det. Vain.).

Siphula tabularis (Thunb.) Nyl.

Nylander (1857) 98, (1860 a) 263 ; Massalongo (1861) 74 ; Crombie (1876 a) 166 ; Müller-Arg. (1888) 130 ; Hue (1890) 244 ; Stizenberger (1890) no. 95 ; van der Byl (1931) 14 ; Garside (1929) 60 ; Zahlbruckner, Cat. Lich. VI : 617.

Lichen verrucosus Linn. f. (1781) 451 (" Thunb." non Linn.) ; Lamarck (1789) 505.
Lichen verruciger Gmelin (1791) 1377.
Lichen tabularis Thunberg apud Acharius (1798) 90 ; Thunberg (1800) 176, (1823) 743.
Isidium tabulare Acgarius (1798) 90 ; Thunberg, l.c.
Stereocaulon tabulare Acharius (1803) 316, (1810) 583, (1814) 286 ; Sprengel (1827) 275 ; Drège (1843) 82 ; Juel (1918) 51.
Dufourea plumbea Taylor (1847) 184.

on stones, top of Table Mt., side facing town, *Thunberg ;* on stones, often wet with streams, top of Table Mt., *Ecklon, Zeyher, Jelinek, Pappe 19* (S.A.M. 46883) ; on ground, near top of Table Mt., *Eaton,* du Toits Kloof, *Drège ;* Bushman's country, *Zeyher* (Herb. Hook.) ; on sandstone, Ceres, *v. d. Byl ;* on rocks in stream beds, Farmer Pecks Valley, Muizenberg, *Garside ;* summit of Table Mt., *Pillans 4211 ;* saddle between Devil's Peak and Table Mt., *Pillans 3252 ;* head of Kasteel's Poort, Table Mt., *Pillans 3550 ;* between Wynberg upper reservoir and Disa Gorge, *Pillans 3969 ;* middle part of Silvermine Valley, *Pillans 3831 ;* plateau in the Muizenberg, *Pillans 3168 ;* west of Paulsberg, *Pillans ;* summit of Noordhoek Mts., *Pillans ;* Diepgat Kloof, above Somerset West, *Pillans 4842 ;* near waterfall on Swartberg, near Swellendam, *MacOwan.*

Siphula torulosa Nyl.

Nylander (1857) 98, (1859) 236, (1860 a) 263 ; Stizenberger (1890) no. 96 ; Hue (1890) 244, (1899) 30.

Lichen torulosus Thunberg apud Acharius (1798) 100 ; Thunberg (1800) 177, (1823) 743.
Parmelia tortuosa Acharius (1803) 184 ; Juel (1918) 51.
Stereocaulon pulvinatum Acharius (1810) 584, (1814) 286 ; Drège (1843) 82, 85, 116.

on rocks in mountain, Cape of Good Hope, *Thunberg ;* du Toits Kloof, *Drège ;* Paarlberg, *Drège ;* Gnadenthall, *Drège.*

Usnea acanthera Vain.

apud Motyka (1937) 358.
Crocodile River, Bechuanaland, *Klingsberg* (Stockholm).

Usnea aequatoriana Motyka.

Motyka (1937) 476.
in forest, Karkloof, *Rehmann*.

Usnea africana Motyka

Motyka (1937) 398.
near Lydenburg, *Wilms* (Lojka Lichenoth. Univ. 58).

Usnea amplissima Stirt.

Stirton (1881) 106 ; Motyka (1937) 377 ; Zahlbruckner, Cat. Lich. VI : 534.
Usnea arthroclada Fée subsp., *arthrocladodes* Wainio (1901) 397 ; Zahlbruckner, Cat. Lich. VI : 537.
on trees, near Somerset East, *MacOwan*, Type ; near Koningkroon, Elliot Distr., *Hφeg ;* near Enon, *Drège ;* Baziya, *Baur ;* Kaffraria, *Cooper ;* Gouritz Rivier, *Breutel ;* in indigenous forest, near Woodbush, *Rehmann ;* Chimanimani Mts., Melsetter Dist., *Swynnerton*.

Usnea articulata (Linn.) Hoffm.

Stizenberger (1890 & 1895) no. 228 ; Stirton (1877) 212 ; J. Müller-Arg. (1893 a) 509 ; Steiner (1907) 638 ; Zahlbruckner, Cat. Lich. VI : 537.
Lichen divaricatus Thunberg (1800) 180, (1823) 750.
Usnea barbata var. *articulata* Ach., Nylander (1869 a) 6 ; Juel (1918) 49.
on branches of trees, Cape, *Thunberg, Masson ;* Pondoland, *Bachmann ;* Mt. Mamotsuiri, *Junod 990 pr. p.*, Durban, *Armstrong ;* on rocks, top of Table Mt., *MacOwan* (Herb. Kalchbr.).
Motyka (1936) states that this species occurs only in Europe and the Mediterranean region ; *Usnea praelonga* Stirt. and *U. flexilis* Stirt. are the only two species of his section Articulatae said to occur in South Africa ; several other species are known in tropical Africa.

f. **minor** Krempelh.

Steiner (1907) 638 ; Zahlbruckner, Cat. Lich. VI : 540.
on bark, Stellenbosch, *Duthie 1 pr. p.*

Usnea australis Fr.

von Flotow (1843) 27 ; Krauss (1846) 202 ; Zahlbruckner, Cat. Lich. VI : 541.
(?) *Usnea barbata* var. *australis* Müll. Arg., J. Müller-Arg. (1893 a) 509.
Usnea barbata var. *florida* f. *australis* Wainio (1901) 396.
(?) *Usnea florida* var. *australis* Stizenberger (1895) no. 222.
on branches of trees, Pondoland, *Bachmann ;* summit of Serra da Xella Mts., *Welwitsch 21 pr. p.*, on old trees, near Constantia, *Krauss*.
According to Motyka (1937) 536, *U. australis* occurs in Hawaii and possibly in southern California ; European specimens and those from other localities recorded by Wainio do not seem to belong here.

Usnea capensis Motyka

Motyka (1937) 321.
Taaiboschkrantz, *Rehmann ;* Woodbush, *Rehmann ;* on rocks, Kaapsche Hoop, *Hφeg*.

Usnea cartilaginea Laur.

Motyka (1937) 493.

Table Mt., *Drège ;* on **Acacia** sp., about 6 mis. west of Heidelberg, Cape, *Hφeg ;* Heidelberg commonage, *Hφeg ;* on rocks, valley of Bloukrantz Riv., *Hφeg ;* on sandstone rocks, Dordrecht Distr., *Hφeg ;* on branches of indigenous trees, ' The Aloes ', Kirstenbosch, *Garside ;* near Karkloof *Rehmann ;* near Lydenburg, *Wilms ;* in indigenous forest above Woodbush village, *Rehmann ;* on trees near river, Harrismith, *Hφeg.*

Usnea comosa (Ach.) Röhl.

Motyka (1936) 264.

Usnea barbata (Linn.) Ach.* *Usnea florida* var. *comosa* Wainio (1901) 396.

Usnea florida var. *comosa* Biroli, Steiner (1907) 637 ; Zahlbruckner, Cat. Lich. VI : 571.

on tree trunks, Mt. Mamotsuiri, *Junod 988 ;* summit of Serra da Xella Mts., *Welwitsch 21 pr. p. ;* Woodbush, *v. d. Byl 505* (det. Vain.).

Motyka, l.c., says that *U. comosa* occurs mostly on Piceae in northern and subalpine regions of Europe ; it is known in North America, but not in the southern hemisphere.

Usnea contorta Jatta

Motyka (1937) 414 ; Zahlbruckner, Cat. Lich. VI : 549.

on trees near Grahamstown, *Hφeg ;* Gouritz Rivier, *Breutel.*

Usnea cornuta Körb.

Stizenberger (1890) no. 231 ; Zahlbruckner, Cat. Lich. VI : 549.

on trunks of trees, Orange Free State, *Rehmann*

Usnea dasypoga (Ach.) Röhl.

Stizenberger (1890) no. 225 ; Zahlbruckner, Cat. Lich. VI : 550, VIII : 578 ; Motyka (1936) 193.

(?) *Lichen barbatus* Linn., Thunberg (1800) 180, (1823) 750.

(?) as *Usnea barbata* (Linn.) Fr., Juel (1918) 49.

Cape of Good Hope, *Rehmann*, (?) *Thunberg.*

Motyka, l.c., states that *U. dasypoga* is widely distributed in the mountains of Europe, usually densely clothing branches of Piceae, less frequently in other trees. There is one record of its occurrence in California, but none in the southern hemisphere. No South African collection is assigned by him to this species or its varieties.

Usnea dasypogoides Nyl.

Stizenberger (1890) no. 226 ; Motyka (1937) 464.

Usnea dasypoga var. *plicata* Cromb. f. *dasypogoides* Hue, Zahlbruckner, Cat. Lich. VI : 561.

on branches, Table Mt., *Wilms.*

Motyka, l.c., does not record this species from Africa.

Usnea delicata Vain.

Vainio (1926) 1 ; van der Byl (1931) 4 ; Motyka (1937) 435 ; Zahlbruckner, Cat. Lich. VIII : 578.

on tree trunk, Onrust, *v. d. Byl 128*, Type ; Table Mt., *Rehmann, Wilms ;* on shrubs, Witsand, Wynberg, *Hφeg ;* near Grahamstown, *Britten*, (*Hφeg*) ; on Eucalyptus sp. near Town Bush, *Hφeg ;* Mquatsheni, near Burnera, *Hφeg ;* Karkloof, *Rehmann ;* on trees, near Lydenburg, *Wilms ;* on **Acacia**, ca. 6 mis. from Heidelberg, Cape, *Hφeg.*

Usnea densirostra Tayl.

Steiner (1907) 638 ; Zahlbruckner, Cat. Lich. VI : 563 ; Motyka (1937) 316.
Usnea ceratina Ach., Stirton (1877) 212 ; Stizenberger (1890) no. 230 ; Zahlbruckner, Cat. Lich. VI : 544.
Usnea barbata f. *ceratina* Ach., Nylander (1869 a) 6.
on rocks, Mt. Mamotsuiri, *Junod 989 ;* without locality, *Ecklon. Zeyher, Wilms, Rehmann ;* Durban, *Armstrong.*
According to Motyka, l.c., this a South American species ; it has often been confused with *U. pulvinata.*

Usnea diffracta Vain.

Motyka (1937) 389 ; Zahlbruckner, Cat. Lich. VI : 563.
Usnea dasypoga var. *plicata* f. *annulata* Hue, Steiner (1907) 638.
on bark, Mt. Mamoutsuiri, *Junod 990 pr. p.*
According to Motyka, l.c., this lichen is frequent in Japan, Korea and Formosa ; it is not known elsewhere.

Usnea distensa Stirt.

Stirton (1882) 104 ; Motyka (1937) 376 ; Zahlbruckner, Cat. Lich. VI : 563,
Diamond Fields, near Kimberley, *Shaw*, Type ; Enon, *Drège ;* near Koningskroon, Elliott Distr., *Hφeg ;* on trees, Heidelberg, Cape, *Hφeg ;* near Kruis Rivier, north of Heidelberg *Hφeg ;* on **Acacia** sp., near Heidelberg, *Hφeg ;* on **Quercus Robur** Linn., Blauwkrantz, Knysna, *Hφeg ;* (?) Grahamstown, *Hφeg ;* in indigenous forest, near Woodbush, *Rehmann ;* Kaffraria, *Cooper ;* on trees, Zimbabwe, *Hφeg ;* Chirinda Forest, *Swynnerton.*

Usnea flaccida (Müll. Arg.) Motyka

Motyka (1937) 475.
Usnea angulata var. *flaccida* Müll. Arg., J. Müller-Arg. (1890) 337 ; Zahlbruckner Cat. Lich. VI : 535 (excl. synonyms).
on hills above Maritzburg, *Rehmann.*

Usnea flexilis Stirt.

Stirton (1881) 106 ; Motyka (1936) 126 ; Zahlbruckner, Cat. Lich. VI : 564.
in bush, Karkloof, *Rehmann ;* Drakensberg, *Rehmann ;* in hills near Maritzburg, *Rehmann ;* " Diamond Fields ", *Shaw.*

Usnea florida Wigg.

Drège (1843) 85, 89, 95, 132, 138 ; Crombie (1876 a) 166 ; Stizenberger (1890) no. 222 ; Zahlbruckner, Cat. Lich. VI : 564 ; Motyka (1936) 242.
Usnea barbata f. *florida* (L) Fr., Nylander (1869 a) 6.
on tree trunks and branches and on rocks, South Africa, without locality ; *MacOwan 801* (Herb. Kalchbr) ; on rocks, Table Mt., *Eaton, Drège ;* Durban, *Armstrong ;* Paarlberg, *Drège ;* Uitkomst, *Drège ;* Devils Peak (S.A.M. 46859) ; Uitenhage (S.A.M. 46860) ; Samteesvlakte, *Drège ;* near Klein and Groot Vischrivier, *Drège.*
Motyka, l.c., states that *U. florida* is frequent in central and north-west Europe ; a few specimens have been seen from North America, none from the southern hemisphere.

Var. **asperrima** Müll. Arg.

Stizenberger (1895) no. 222.
on branches of trees, Natal.

Var. **scabrosa** Wain.

Zahlbruckner, Cat. Lich. VI : 572.

Usnea barbata var. *scabrosa* (Ach.) Müll. Arg., J. Müller-Arg. (1893 a) 509.

Usnea ceratina var. *scabrosa* Ach., Stizenberger (1895) no. 230.

on branches, Pondoland, *Bachmann.*

Usnea Flotowii Zahlbr. var. **subhispida** Zahlbr.

Zahlbruckner (1926 b) 541, Cat. Lich. VI : 575.

on bark, Skeleton Revine, Table Mt., *Brunnthaler.*

Usnea fusca Motyka

Motyka (1937) 473.

on branches of native trees, ' The Aloes ', Kirstenbosch, *Garside ;* Lydenburg, *Wilms ;* Mquatsheni near Burnera, *Hφeg ;* near cataract in a remote place, Impendhle Distr., *Hφeg.*

Usnea gonioides Stirt.

Stirton (1881) 108 ; Motyka (1937) 396.

Usnea angulata Ach. f. *gonioides* Hue (1899) 45 ; Zahlbruckner, Cat. Lich. VI : 535.

on branches of native trees, ' The Aloes ', Kirstenbosch, *Garside ;* Cape, *Bolus ;* Adelaide, *Brugton ;* Gouritz Rivier, *Breutel ;* Karkloof, *Rehmann ;* near Lydenburg, *Wilms ;* in indigenous forest, Woodbush, *Rehmann.*

Usnea Havaasii Motyka

Motyka (1937) 450.

Trappist Mission, Mariannhill, *Lindauer.*

Usnea hirta (Linn.) Wigg.

Stizenberger (1890) no. 223 ; Zahlbruckner, Cat. Lich. VI : 576.

South Africa, *Drège, Krauss, Wawra, MacOwan, McLea, Wilms.*

According to Motyka (1936-7), *U. hirta* is a common species in Europe and seems to be present in America, but it is not known elsewhere.

Usnea hispidula (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. VI : 581 ; Motyka (1937) 488.

on trunk of trees, Umbovana, Zululand, *Brylin.*

Usnea horridula (Müll. Arg.) Motyka

Motyka (1937) 334.

Usnea longissima Ach. var. *horridula* Müll. Arg., J. Müller Arg. (1891) 372 ; Zahlbruckner, Cat. Lich. VI : 586, VIII : 580.

Usnea hirta var. *horridula* (Müll. Arg.) Stizenberger (1893) no. 233.

Mooi River, Natal ; Helpmekaar, Woodbush, *Eastwood ;* Port Natal, *Plant.*

Usnea implicita (Stirt.) Zahlbr.

Zahlbruckner, Cat. Lich. VI : 582 ; Motyka (1936) 60.

Eumitra implicita Stirton (1881) 100.

on stones and on branches, Pondoland, *Bachmann ;* Great Escarpment, near Kaapsche. Hoop, *Hφeg ;* Solheim M.S., near Eshowe, *Hφeg ;* Blauwkrantz Valley, *Hφeg.*

Usnea intercalaris Krempelh.

Stizenberger (1890) no. 229 ; Zahlbruckner, Cat. Lich. VI : 582.
on bark, Cape.

Usnea laevis (Eschw.) Nyl.

Stizenberger (1890) no. 236 ; Zahlbruckner, Cat. Lich. VI : 583.
Zululand, *Schloemann.*

Usnea leprosa Motyka

Motyka (1936) 106.
on trees and shrubs undet., Mazoe, *Eyles ;* Zimbabwe, *Hφeg ;* Helpmekaar, Woodbush, *Wilms ;* near Lydenburg, *Wilms ;* Krugerspost, *Wilms ;* Karkloof, *Rehmann ;* Koningskroon, Elliott Distr., *Hφeg ;* Howieson's Poort, *Hφeg ;* Witsand, Wynberg, *Hφeg ;* ' The Aloes ', Kirstenbosch, *Garside ;* on **Acacia** sp., 6 mis. west of Heidelberg, Cape, *Hφeg ;* on **Eucalyptus** sp., Town Bush, *Hφeg ;* on old trunks of **Euphorbia** sp., Kingwilliamstown ; on **Syringa**, Camperdown, *Hoeg ;* on trunks of **Tarchonanthus** and **Xerapetalis** spp., summit of Serra da Xella, *Welwitsch.*

Usnea longissima Ach.

Drège (1843) 133, 146 ; Crombie (1876 a) 166 ; Stizenberger (1890 & 1895) no. 233 ; J. Müller-Arg. (1893 a) 509 ; Gepp (1911) 244 ; Zahlbruckner, Cat. Lich. VI : 583.
on bark of trees, Cape, *Breutel ;* Table Mt., *Eaton* on branches, Pondoland, *Bachmann ;* Olyfhoutskloof, *Drège ;* between ' Gekau ' and ' Basche ', *Drège ;* Chirinda Forest, *Swynnerton 430 ;* Chimanimani Mts., *Swynnerton 617 ;* Madanda Forest, *Swynnerton 801, 1804 ;* Humansdorp, *Woodcock* (S.A.M. 46926).
Motyka (1937) 423-432, does not record this species from South Africa, only from the northern hemisphere. It closely resembles *Usnea pectinata* and *U. trichodeoides.*

Usnea maculata Stirt.

Stirton (1882) 293 ; Zahlbruckner, Cat. Lich. VI : 586 ; Motyka (1937) 337.
Usnea rubiginea Massalongo (1861) 45.
on trees, Somerset East, *MacOwan & McLea* (Zwackh. Lich. no. 820 ; Brit. Mus.) ; Table Mt., *MacOwan, Rehmann. Jelinek, Wilms ;* in **Acacia** sp., on the Cape Flats, *Rehmann ;* on **Acacia** sp., near Heidelberg, Cape, *Hφeg.*
on rocks, Bain's Kloof, *Wawra ;* Cape Town, *Marloth ;* on sandstone, Kloof, Dordrecht, *Hφeg ;* Drakensberg, *Rehmann ;* Mquatsheni Valley, *Hφeg ;* near Kaapsche Hoop, *Hφeg ;* Hashlosa Mt., near Ennersdale, *Hφeg.*

Usnea malacea Zahlbr. var. **subelegans** Zahlbr.

Zahlbruckner, Cat. Lich. VI : 587.
Usnea florida Wigg. var. *subelegans* Vainio (1901) 396.
on branches of trees, summit of Serra da Xella, *Welwitsch 21 pr. p.*

Usnea moniliformis Motyka

Motyka (1937) 447.
on trees, on hills above Maritzburg, *Rehmann ;* in indigenous forest, Woodbush, *Rehmann ;* on **Podocarpus elongatus** L'Hérit., Cape, *Schott.*

Usnea molliuscula Stirt.

Stirton (1883) 77 : Zahlbruckner, Cat. Lich. VI : 587 ; Motyka (1937) 541.
on trunks and branches of trees, Table Mt., *Rehmann*, *Wilms*, *MacOwan ;* Inaccessible Gorge, Table Mt., *Pillans ;* Hottentots Holland Mts., (Zwäckh. Lich. no. 819) ; lower slopes of Mountains, Banhoek, *Garside 4127 ;* Heidelberg, Cape, *Hφeg ;* Grahamstown, *Britten* (Hφeg) ; Pondoland, *Bachmann ;* near Solheim M. S., Eshowe, *Hφeg ;* near Burnera, *Hφeg ;* Upper Umkomaas, *Hφeg ;* Zimbabwe, *Hφeg ;* Woodbush, *Rehmann ;* on **Quercus Robur** Linn., Blauwkrantz, Knysna, *Hφeg.*

Usnea mutabilis Stirt.

Stirton (1881) 107 ; Zahlbruckner, Cat. Lich. VI : 588 ; Motyka (1937) 364.
on shrubs, Woodbury, Alexandria Distr., *Hφeg.*

Usnea ochrophora (Stizenb.) Motyka

Motyka (1936) 254.
Usnea florida var. *ochrophora* Stizenb. in Herb. Acad. Polytechn., Zurich.
on branches of trees and shrubs, Table Mt., *MacOwan*, *Wilms ;* Soldaten Bosch, western slopes of Table Mt., *Pillans ;* Brackels Kloof, Stellenbosch, *Garside ;* ' The Aloes ', Kirstenbosch, *Garside.*

Usnea perspinosa Motyka

Motyka (1937) 533.
on trees, Zimbabwe, *Hφeg ;* Lourenço Marques, *Quintas.*

Usnea picta (Steiner) Motyka

Motyka (1937) 325.
Usnea ceratina Ach. var. *picta* Steiner (1897) 210 ; Zahlbruckner, Cat. Lich. VI : 547.
on shrubs, Woodbury, Alexandria Distr., *Hφeg.*

Usnea plicata (Linn.) Wigg.

Stizenberger (1890) no. 227.
Usnea dasypoga Röhl. var. *plicata* Crombie, Zahlbruckner, Cat. Lich. VI : 557.
on branches, Transvaal, *Rehmann.*
Motyka (1936) 231, states that *Usnea plicata* is a very rare species, known only in Europe.

Usnea poliotrix Krempelh.

Motyka (1937) 311.
sub *Usnea Baileyi* Zahlbruckner, Cat. Lich. VI : 542.
in **Eucalyptus** plantation, near Town Bush, *Hφeg.*

Usnea praelonga Stirt.

Stirton (1881) 107 : Zahlbruckner, Cat. Lich. VI : 589 ; Motyka (1936) 112.
without locality, *McLea* (Brit. Mus.) Type ; beneath steep krantz, Mquatsheni Distr., *Hφeg.*

Usnea primitiva Motyka

on **Podocarpus** sp., Tulbagh Valley, *Barnard* (S.A.M. 46440).

Usnea Promontorii Motyka

Motyka (1937) 386.

on shrubs and trees in indigenous forest, Cape, *Rehmann ;* nr. Bezuidenhouts Rivier, Uitenhage Distr., *Hφeg ;* towards Kruis Rivier, Heidelberg, Cape, *Hφeg ;* in forest, Knysna, *Rehmann ;* Claskoon, Zitzikamma ; lower slopes of Table Mt., *Pillans ;* in branches of native trees, ' The Aloes ', -Kirstenbosch, *Garside ;* Mquatsheni, Polela Distr., *Hφeg ;* Drakensberg, *Rehmann ;* steep krantz near Burnera, Impendhle Distr., *Hφeg ;* on trees, Zimbabwe, *Hφeg.*

Usnea pulverulenta (Müll. Arg.) Motyka

Motyka (1936) 107.

Usnea florida var. *pulverulenta* Müll. Arg., Stizenberger (1890) 145, no. 222 ; Zahlbruckner, Cat. Lich. VI : 572.

on branches, Transvaal, *Rehmann.*

Usnea pulvinata Fr.

Zahlbruckner, Cat. Lich. VI : 590 ; Motyka (1937) 319.

Usnea florida var. *densirostra* Stizenberger (1890) 145, no. 222.

Usnea transvaalensis Vainio (1926) 1 ; van der Byl (1931) 14 ; Zahlbruckner, Cat. Lich. VIII : 581.

on rocks, summit of Table Mt., and Hottentot's Holland Mts., *MacOwan* (Zwackh. Lich. 819, 820) ; Devils Peak, *MacOwan ;* Rietvlei, Elliott Distr., *Hφeg ;* Genadendal ; west of Simonstown, *Pillans ;* Bain's Kloof, *Wawra ;* near Riet Vlei, Aliwal North, *Hφeg ;* Viljoen's Pass, Elgin, *Garside ;* Maseru, *Schroeter* ; Pondoland, Mt. Hoshlosa nr. Ennersdale, *Hφeg ;* upper Umkomaas, Impendhle Distr., *Hφeg ;* Barberton, *Thorncroft* (v. d. Byl 229) ; near Lydenburg, *Wilms ;* Kaapsche Hoop, *Hφeg ;* Zambesia, *Kirk ;* Natal, *Baines ;* in indigenous forest above Woodbush village, *Rehmann.*

Usnea rubescens Stirt. var. **rubrotincta** (Stirt.) Motyka

Motyka (1937) 348.

Usnea rubrotincta Stirton (1881) 103 ; Stizenberger (1890) no. 222, nota ; Zahlbruckner, Cat. Lich. VI : 591.

on trees, Transvaal, Wilms ; Gouritzrivier, *Breutel ;* Mquatsheni, *Hφeg ;* in **Eucalyptus** plantation, Town Bush, *Hφeg ;* in bush, Karkloof, *Rehmann ;* Grahamstown, *Hφeg ;* nr. Kruis Rivier, north of Heidelberg, Cape, *Hφeg ;* on **Acacia** sp., 6 mis. west of Heidelberg, Cape, *Hφeg ;* east of Bezuidenhouts Rivier, Uitenhage Distr., *Hφeg ;* lower slopes of Banhoek Valley, *Garside ;* Woodbury, Alexandria Distr., *Hφeg.*

Usnea rubicunda Stirt.

Stirton (1881) 102 ; Motyka (1937) 339 ; Zahlbruckner, Cat. Lich. VI : 590.

Usnea florida var. *rubiginea* Michx., Stizenberger (1890) no. 222, nota ; Hillmann (1929) 289.

? *Usnea rubiginea* Massalongo (1861) 45 ; Zahlbruckner, Cat. Lich. VI : 590.

South Africa, without locality ; ? Cape, *Wawra.*

Usnea sorediosula (Müll. Arg.) Motyka

Motyka (1937) 330.

on solitary trees of **Erythrina** sp., between Inyezana River and Mtunzini, Eshowe Distr., *Hφeg.*

Usnea spilota Stirt.

Motyka (1937) 333 ; Zahlbruckner, Cat. Lich. VI : 592.

on **Acacia** sp., near Heidelberg. Cape, *Hφeg ;* on trees, Cape, without locality, *Breutel ;* Humansdorp Distr., on border of Knysna Distr., *Hφeg.*

Usnea Steineri Zahlbr.

Zahlbruckner (1932) 225 : Cat. Lich. VI : 592 : van der Byl (1931) 14.

on branches of **Canthium** sp., Brenton, Knysna, *v. d. Byl 690 ;* on tree trunk, Stellenbosch, *Slabbert* (v. d. Byl 705).

Usnea strigosa (Ach.) Eaton

Motyka (1937) 359.

Usnea florida var. *strigosa* Ach., Stizenberger (1890) no. 222 : Zahlbruckner, Cat. Lich. VI : 573.

on bark, Transvaal, *Rehmann ;* Table Mt., *Wilms.*

Motyka, l.c., states that this species is only known to occur in Southern California, Mexico and places in the south-eastern part of North America with a rather high altitude.

Usnea strigosella Steiner

Steiner (1907) 637 : Zahlbruckner, Cat. Lich. VI : 592 : Motyka (1937) 516.

on branches, Mt. Mamotsuiri, *Junod 990* (Herb. Barbey Boissier) : Table Mt. *Eaton ;* on trunks of indigenous trees, lower slopes of Banhoek. *Garside :* on **Acacia** sp., near Heidelberg, Cape. *Hφeg ;* Adelaide, *Krugon ;* on shrubs and trees near road between Walmer and Schoenmakers Kop, *Hφeg ;* on shrubs near town, Woodbury, *Hφeg ;* Gouritzrivier, *Breutel ;* Kaffraria, *Adamson ;* Appelsbosch, Great Noodsberg, *Ljungquist ;* Mquatsheni, *Hφeg ;* on trunk of ' Saphron ' tree, Umbovana, Zululand, *Brylin ;* Helpmekaar, Woodbush, *Eastwood ;* Lydenburg, *Wilms.*

Usnea sublurida Stirt.

Zahlbruckner, Cat. Lich. VI : 593 ; Motyka (1937) 349.

on indigenous trees, ' The Aloes ', Kirstenbosch, *Garside.*

Usnea submusciformis Vain.

van der Byl (1931) 14, ? nom. nud.

Matopos, *Eyles 560, 1148* (v. d. Byl 560).

Usnea sulcata Motyka

Motyka (1937) 478.

Usnea angulata Ach., Stizenberger (1890 & 1895) no. 237 ; J. Müller-Arg. (1893 a) 509 ; Zahlbruckner, Cat. Lich. VI : 534.

on trees and shrubs, south of Woodbury, *Hφeg ;* south of Bushman River, *Hφeg :* Gouritz Rivier. *Breutel :* Pondoland, *Bachmann ;* Natal, *Rehmann ;* Transvaal, *Rehmann, Wilms ;* Cape, *Ecklon :* near Lydenburg, *Wilms* (Lichenoth, univ. 48 ; S.A.M. 47015).

Usnea trichina Motyka

Motyka (1937) 391

Usnea gracilis var. *subplicata* Vain., Zahlbruckner, Cat. Lich. VI : 576.

on trunk of tree, Umbovana, Zululand, *Brylin.*

Usnea trichodeoides Vain. emend. Motyka

Motyka (1937) 421.
Usnea trichodea Ach., Stizenberger (1890) no. 234 ; Zahlbruckner (1926 a) 543, Cat. Lich. VI : 595.
on trees and small shrubs, Bezuidenhouts River Valley, Uitenhage Distr., *Hφeg ;* Gouritz Rivier, *Breutel ;* Port Elizabeth ; Madanda Forst, Melsetter Distr., *Swynnerton ;* on the borders of Kaffraria, *Drège ;* near Guru, (?) Cape ; Enon ; Clyfhoutkloof, *Drège ;* on **Strychnos** sp., in indigenous forest, Olifantshoek near Alexandria, *Nightingale* on **Podocarpus** sp., van Reenen's Pass, *Brunnthaler ;* without locality, *Wawra, Schott, Wilms ;* on trees and small shrubs, Bezuidenhouts River Valley *Hφeg ;* Gouritz River, *Breutel.*

Usnea undulata Stirt.

Stirton (1881) 104 ; Motyka (1937) 547.
Usnea foveolata Stirton (1883) 77 ; Zahlbruckner, Cat. Lich. VI : 575.
Usnea barbata var. *farinosa* Müll. Arg., J. Müller-Arg. (1891) 373.
Usnea florida var. *farinosa* (Müll. Arg.) Stizenberger (1893) no. 222.
Usnea farinosa Zahlbruckner, Cat. Lich. VI : 564.
Usnea Steineri var. *tincta* f. *sorediosa* Zahlbruckner (1926 b) 541, Cat. Lich. VI : 592.
on **Acacia** sp., Port Alfred, *Hφeg ;* near Heidelberg, Cape, *Hφeg ;* on **Eucalyptus** sp., Town Bush, *Hφeg ;* on Syringa, Camperdown, *Hφeg ;* on trees and shrubs undet., Huilla, *Newton ;* Cape, *Rehmann ;* Witsand, *Hφeg ;* near Koningskroon, Elliott Distr., *Hφeg ;* Howieson's Poort and Grahamstown, *Hφeg ;* near East London, *Hφeg ;* Dunbrody Mission, *Uitenhage, Hφeg ;* near Solheim M.S., Eshowe, *Hφeg ;* Mquatsheni, *Hφeg ;* Burnera, Impendhle, Distr., *Hφeg ;* Karkloof, *Rehmann ;* Masiti Mt., Basutoland, *Herwitt ;* Lydenburg, *Wilms ;* Zimbabwe, *Hφeg ;* near Kimberley, *Shaw* (Brit. Mus.).

Usnea sp.

J. Phillips (1929) 101.
on crowns of **Podocarpus** spp., **Apodytes dimidiata** E. Mey., **Canthium** sp., and **Ocotea bullata** E. Mey., Knysna, *J. Phillips.*

CALOPLACACEAE.

Blastenia Acaciae (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 582.
Placodium Acaciae Vainio (1926) 10 ; van der Byl (1931) 15.
on bark of **Acacia mollissima** Willd., near Maritzburg, *v. d. Byl 226*, Type.

Blastenia aspicilioidea Zahlbr.

Zahlbruckner (1936) 174.
on shale rock, Muwe, Namaqualand, *v. d. Byl 1163*, Type.

Blastenia Brunnthaleri Zahlbr.

Zahlbruckner (1932) 256.
on granite rocks, Table Mt., towards Camps Bay, *Brunnthaler*, Type.

Blastenia confluens Müll. Arg.

J. Müller-Arg. (1888) 46 ; Zahlbruckner, Cat. Lich. VII : 27.
Lecanora confluens Stizenberger (1890) 207, no. 631.
Lecidea confluens Hue (1914) 11, non Ach.
on quartzite rocks at top of mountain, Nautilus Point, Angra Pequena, *Schinz*, Type.

Blastenia imponens (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 32.
Lecanora imponens Stizenberger (1890) 207, no. 632.
Lecidea imponens Hue (1914) 14.
on rocks, Orange Free State, *Rehmann*, Type.

Blastenia laingsburgensis Zahlbr.

Zahlbruckner (1936) 174.
on shale rock, Laingsburg, *v. d. Byl 1089*, Type.

Blastenia leptospora Zahlbr.

Zahlbruckner (1926 b) 543 ; Cat. Lich. VII : 33.
on limestone, near Windhoek, *Fincke*, Type.

Blastenia ochracea Trevis. var. **parvula** (Stizenb.) Zahlbr.

Zahlbruckner. Cat. Lich. VII : 48.
Lecanora ochracea (Schaer.) Nyl. var. *parvula* Stizenberger (1890) 200, no. 580.
on basalt rocks, near Lydenburg, *Wilms*.

Blastenia poliotera (Nyl.) Müll. Arg.

J. Müller-Arg. (1880) 36, (1893) 298 ; Schinz (1905) 395; Zahlbruckner, Cat. Lich. VII : 39.
Lecanora poliotera Nyl., Stizenberger (1895) no. 594.
Caloplaca poliotera Steiner (1897) 219.
Placodium poliotera Vainio (1901) 408.
on rocks, Mt., Kanduliri, Zambesi Region, *Menyharth*.

Blastenia praemicans (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 40.
Lecanora praemicans Nyl. apud Crombie (1876 a) 172, (1876 b) 20 ; Hue (1891) 52 ; Stizenberger (1890) no. 584.
Placodium ferrugineum var. *mineaceum* Tuck. (1877) 171.
Lecidea praemicans Hue (1914) 17.
on bark, Table Mt., *Eaton ;* near Camps Bay, *MacOwan*.

Blastenia psorothecioides (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 583.
Placodium psorothecioides Vainio (1926) 9 ; van der Byl (1931) 15.
on bark of **Ochna** sp., near Keurboom, *v. d. Byl 281*, Type.

Blastenia Punicae (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 583.
Placodium Punicae Vainio (1926) 8 ; van der Byl (1931) 15.
on bark of **Punica Granatum** Linn., near Hopefield, *v. d. Byl 392*, Type.

Blastenia punicea Müll. Arg.

J. Müller-Arg. (1888) 45 ; Zahlbruckner, Cat. Lich. VII : 40.
Lecanora subpunicea Stizenberger (1890) 201, no. 590.
Caloplaca punicea Jatta (1910) 202.
Lecidea punicea Hue (1914) 18.
on quartzite rocks at top of mountain, Nautilus Point, Angra Pequena, *Schinz*, Type.

Blastenia seductrix (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 40 (as *Bl. sedutrix*).
Lecanora seductrix Stizenberger (1890) 207, no. 633.
on sandstone rocks, summit of Lion's Head, *MacOwan*, Type.

Blastenia subsalicina Zahlbr.

Zahlbruckner (1932) 257.
on branches of shrubs, near Glencairn, *v. d. Byl 983*, Type.

Blastenia testaceorufa (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 43, VIII : 583.
Placodium testaceorufum Vainio (1926) 10 ; van der Byl (1931) 15.
on bark of **Acacia mollissima** Willd., near Maritzburg, *v. d. Byl 227*, Type.

Blastenia vasquesia Massal.

Massalongo (1861) 72; Zahlbruckner, Cat. Lich. VII : 44.
Lecanora vascesia Stizenberger (1890) 202, no. 591.
Lecidea vasquesia Hue (1914) 20.
on volcanic rocks, Cape, *Wawra*.

Bombyliospora aureola (Tuck.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 49.
Lecidea aureola Tuck., Stizenberger (1891) no. 1028.
Lecanora aureola Stirton (1877) 216.
on bark, South Africa, without locality, *MacOwan*.

Bombyliospora domingensis (Pers.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 51 ; van der Byl (1931) 15.
Lecanora domingensis Ach., Drège (1843) 151 ; Nylander (1869 a) 7 ; Stirton (1877) 216.
Lecidea domingensis Nyl., Stizenberger (1891 & 1895) no. 1026.
Placodium domingense Vain. in Herb. van der Byl.
on bark of trees undet., ? Boschberg, *MacOwan 515*, 44 ; Durban, *Armstrong ;* Stella Bush, *v. d. Byl 62, 67* (det. A. L. Sm.), *v. d. Byl 116* (det. Merrill) ; on **Gardenia globosa** Hochst., Winkle Spruit, *v. d. Byl 50*, (det. A. L. Sm.) ; on **Trichilia emetica** Vahl, Woodbush, *v. d. Byl 480, 483* (det. Vain.) ; ' Omsamwubo ', near river, *Drège*.

Var. **colorata** Vain.

Zahlbruckner, Cat. Lich. VI : 52 ; van der Byl (1931) 15.
on trunk of tree undet.,Stella Bush, *v. d. Byl 180* (det. Vain.) ; on trunk of **Celtis Kraussiana** Bernh., Durban, *v. d. Byl 196* (det. Vain.).

Var. **flavocrocea** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 52.
Lecidea flavocrocea Nyl., Stizenberger (1891) no. 1027.

Lecanora flavocrocea Nylander (1869 a) 7 ; Hue (1891) 53.
Bombyliospora flavocrocea Massalongo (1860) 262.
on trunks of trees, Cape of Good Hope.

Var. **glaucotropa** Vain.

Zahlbruckner, Cat. Lich. 52 ; van der Byl (1931) 15.
on tree trunk, Eshowe, v. d. Byl 188 (det. Vain.).

Var. **inexplicata** Malme

Zahlbruckner, Cat. Lich. VII : 52.
Lecidea domingensis var. *inexplicata* Nyl., Stizenberger (1895) no 1026.
on bark, South Africa.

Var. **inspersa** Steiner

Steiner (1907) 645 ; Zahlbruckner, Cat. Lich. VI : 52.
on bark, Mt. Mamotsuiri, *Junod 995*.

Bombyliospora flavidula (Tuck.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 53, VIII : 584.
as *Bombyliospora domingensis* var. *flavidula*, van der Byl (1931) 15.
Placodium flavidulum Vainio (1926) 9.
on tree trunk, Stella Bush, *v. d. Byl 107*.

Bombyliospora incana A. L. Sm.

Zahlbruckner, Cat. Lich. VII : 53.
Lecidea pachycarpa Fr., Nylander (1869 a) 10 ; Stizenberger (1891) no. 1020.
on bark, Durban, *Armstrong*.

Bombyliospora leprolyta (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 54.
Patellaria leprolyta Müll. Arg., J. Müller-Arg. (1893 b) 298.
near Boroma, Lower Zambesi, *Menyharth 264*.

Bombyliospora tuberculosa (Fée) Massal.

Zahlbruckner, Cat. Lich. VII : 56.
Lecidea tuberculosa Fée., Stizenberger (1891) no. 1021 ; Nylander (1869 a) 11.
on bark, Durban, *Armstrong*.

f. **geotropa** (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 56.
Lecidea tuberculosa f. *geotropa* Stizenberger (1891) no. 1021.
on dry ground, Table Mt., *Jelinek*.

Bombyliospora zuluensis Vain.

Vainio (1926) 18 ; Zahlbruckner, Cat. Lich. VIII : 584 ; van der Byl (1931) 15.
on bark of **Thespesia** sp., near Eshowe, *v. d. Byl 184*, Type.

Caloplaca amphidoxa (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 65.
Lecanora amphidoxa Stizenberger (1890) 200, no. 585.
on bark of pomiferous trees, near Lydenburg, *Wilms*.

Caloplaca aurantiaca Th. F.

Zahlbruckner, Cat. Lich. VII : 69.
Lecanora aurantiaca Flotow, Drège (1843) 134.
Lecidea aurantiaca Ach., Drège (1843) 80.
on trees and rocks, Hoffmans Kloof, *Drège ;* du Toits Kloof, *Drège ;* Paarlberg, *Drège.*

f. **fulva** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 75.
Lecanora aurantiaca Flotow var. *fulva* Nylander (1869 a) 7 ; Stizenberger (1890) 198, no. 574 ; Hue (1891) 49.
on trunks, Durban, *Armstrong.*

Caloplaca benguellensis (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 79.
Lecanora benguellensis Nylander (1868) 511 ; Hue (1891) 50 ; Stizenberger (1890) no. 614.
Placodium ferrugineum (Huds.) Hepp. var. *benguellensis* Wainio (1901) 408.
Placodium benguellense Wainio (1915) 53.
on perpendicular, schistose rocks, between Maiombo and Pomangala, in Serra de Caximba, *Welwitsch 17 pr. p., 485 pr. p.*

Caloplaca capensis (Massal.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 84.
Callopisma capensis Massalongo (1861) 59.
on rocks, Cape, *Wawra.*

Caloplaca calviniana Zahlbr.

Zahlbruckner (1932) 262.
on schistose rocks, near Calvinia, *v. d. Byl 769*, Type.

Caloplaca cardinalis Zahlbr.

Zahlbruckner (1932) 267.
on sandstone rocks, Steinkopf Mt., Namaqualand, *Meyer* (v. d. Byl 955) Type.

Caloplaca carphinea Jatta var. **scoriophila** Steiner.

Zahlbruckner, Cat. Lich. VII : 223.
Placodium scoriophilum Massalongo (1861) 55.
Lecanora scoriophila Stizenberger (1890) 194, no. 539.
on volcanic rocks, Cape, *Wawra.*

Caloplaca cataschista Zahlbr.

Zahlbruckner (1936) 176.
on quartzite, near Upington, *v. d. Byl 1155*, Type.

Caloplaca cerina (Ach.) Th. Fr.

van der Byl (1931) 15 ; Zahlbruckner, Cat. Lich. VII : 84.
on tree trunk, Bot. Gard., Durban, *v. d. Byl 113* (det. Merrill).

Caloplaca cinnabarina (Ach.) Zahlbr.

van der Byl (1931) 15 ; Zahlbruckner, (1932) 265, Cat. Lich. VII : 101.
Lecanora cinnabarina Ach., Drège (1843) 50, 75 ; Nylander (1868) 511, (1869 a) 7 ; Crombie (1876 a) 171 ; Stizenberger (1890 & 1895) no. 571.
Callopisma cinnabarium Müll. Arg., J. Müller-Arg. (1893 a) 510, (1893 b) 297 ; Schinz (1905) 395.
Placodium cinnabarinum Nyl., Wainio (1901) 407, (1915) 45.
on rocks and stones, chiefly sandstone, but also on granite, Durban, *Armstrong ;* Kraairivier, *Drège ;* Piquetberg, *Drège ;* Table Mt., *Eaton ;* Table Mt., opposite Camps Bay, *Brunnthaler ;* Hanover, Cape, *v. d. Merwe* (v. d. Byl 436 pr. p.) ; Matjesfontein, *Marloth 107 ;* near Ceres, *Leslie* (v. d. Byl 622)) ; Clanwilliam, *v. d. Byl 773 ;* Glencairn, *v. d. Byl 978 ;* Botany Bay, *v. d. Byl 990 ;* Calvinia, *v. d. Byl 1132 ;* Pondoland, *Bachmann ;* near Boroma, *Menyharth 1, 210 ;* Matopos, *v. d. Byl 150* (det. Vain.) ; near Salisbury, *Eyles* (v. d. Byl 605, 631) ; between Maiombo and Cazimba, *Welwitsch* 14 ; near cataract, Ferrão da Solo, *Welwitsch 484 pr. p. ;* on high mountain, Morro de Lopollo, *Welwitsch 53, 54 pr. p., 116 pr. p.*

Var. **opaca** (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 102.
Callopisma cinnabarinum var. *opacum* Müll. Arg., J. Müller-Arg. (1893 b) 297 ; Schinz (1905) 395.
Lecanora cinnabarina var. *opaca* Stizenberger (1895) no. 571.
near Boroma, Lower Zambesi, *Menyharth 5, 1210.*

Caloplaca cinnabariza (Nyl.) Zahlbr.

Zahlbruckner (1932) 266, Cat. Lich. VII : 102.
Lecanora cinnabariza Nyl. apud Crombie (1876 a (172, (1876 b) 19; Stizenberger (1890) no. 572 ; Hue (1891) 48.
on rocks, Table Mt., *Eaton*, Type, *Jelinek 305 ;* on quartz rocks, Smitswinkel, *v. d. Byl 997, 1000.*

Caloplaca coccinella (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 108.
Lecanora coccinella Stizenberger (1890) 201, no. 589.
Lecidea coccinella Hue (1914) 10.
amongst other lichens, on crumbling granite rocks, Lion's Head, *MacOwan*, Type.

Caloplaca conchiliata Zahlbr.

Zahlbruckner (1932) 264.
on non-calcareous rocks, near Matjesfontein, *Brunnthaler*, Type.

Caloplaca crocodes (Massal.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 112, (1926 b) Pl. 8, f. 1-5.
Callopisma crocodes Massalongo (1861) 87.
on quartzite rocks, Cape, *Ecklon.*

Caloplaca delectans Zahlbr.

Zahlbruckner, (1932) 262.
on schistose rocks, Grootrivier, *v. d. Byl 898*, Type.

Caloplaca diploplaca Zahlbr.

Zahlbruckner (1932) 268 ; van der Byl (1931) 15.
on rocks, south-west Africa, *Kriege* (v. d. Byl 709) Type.

Var. **gracilior** Zahlbr.

Zahlbruckner, (1932) 269.
on quartz rocks, Haifischbucht, *Fincke*, Type ; on silicaceous stones, Rössing, near Swakopmund, *Lebzetter*.

Caloplaca discolorella Zahlbr.

Zahlbruckner (1932) 261 ; van der Byl (1931) 15.
on quartzite rocks, Knysna, *v. d. Byl 683*, Type ; on granite rocks, Salisbury. *Eyles* (v. d. Byl 584).

Caloplaca Ecklonii (Massal.) Zahlbr.

Zahlbruckner (1926 c) pl. 7, f. 1-10 Cat. Lich. VII : 231.
Niopsora Ecklonii Massalongo (1861) 85.
on trunks of trees, Cape, *Ecklon*.

Caloplaca effusa Merrill.

van der Byl (1931) 15, nom. nud.
on rock, Klapmuts, *v. d. Byl 100 pr. p.*

Caloplaca elegans (Link.) Th. Fr.

Zahlbruckner, Cat. Lich. VII : 231.
Placodium elegans DC., Vainio (1901) 407.
Amphiloma elegans Koerb., Schultze (1907) 705.
on scattered, calcareous stones, Serra de Montes Negros, Mossamedes, *Welwitsch 43, 483 ;* on rocks, Angra Pequena, in the Namib, *Schultze 51* **a** ; Gordons Bay, *Wells* (v. d. Byl 961, det. A. L. Sm.) ; Riversdale, *v. d. Byl 938* (det. A. L. Sm.).

Caloplaca elegantissima (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 238.
Lecanora elegantissima Nylander (1868) 510 ; Stizenberger (1890) no. 544 ; Hue (1891) 46.
Amphiloma elegantissimum Müll. Arg., J. Müller-Arg. (1888) 529.
Placodium elegantissimum Wainio (1901) 407.
on quartzite rocks, between Caroca and Cazimba, near Cabo Negro, Mossamedes, *Welwitsch 45, 48 pr. p., 49 pr. p. ;* near Obib, Orange River, *Schenck*.

Caloplaca eudoxa Zahlbr.

Zahlbruckner, Cat. Lich. VII : 238.
Amphiloma eudoxum Müll. Arg., J. Müller-Arg. (1888) 44.
Lecanora eudoxa Stizenberger (1890) 194, no. 545.
on quartzite rocks, at top of mountain, Nautilus Point, Angra Pequena, *Schinz*.

Caloplaca fecunda Zahlbr.

Zahlbruckner (1932) 260.
on sandstone rocks, Steinkopf Mt., Namaqualand, *Meyer* (v. d. Byl 952), Type.

Caloplaca ferruginea (Huds.) Th. Fr.

Zahlbruckner, Cat. Lich. VII : 118.
Lecanora ferruginea Link., Drège (1843) 134, 141 ; Stizenberger (1890 & 1895) no. 581 ; Hue (1891) 51.
Blastenia ferruginea Massal., J. Müller-Arg. (1893 b) 298 ; Schinz (1905) 395 ; van der Byl (1931) 15.
on rocks, Cape and near Lydenburg, *Wilms ;* near Boroma, *Menyharth 255, 270, 272, 463 ;* ' Glenfilling ', *Drège ;* Hoffmanskloof, *Drège.*
on tree trunk, Onrust, *v. d. Byl 332* (det. Vain.).

f. **erysibe** Jatta

Zahlbruckner, Cat. Lich. VII : 122.
Lecanora ferruginea f. *erysibe* Stizenberger (1890) no. 581.
on bark, near Lydenburg, *Wilms.*

Caloplaca ferrogineovirens (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 586.
Placodium ferrugineovirens Vainio (1926) 7 ; van der Byl (1931) 15.
on bark of **Royena** sp., near Howick, *v. d. Byl 224*, Type.

Caloplaca flava (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 131.
Callopisma flavum Müll. Arg., J. Müller-Arg. (1893 b) 297 ; Schinz (1905) 395.
Lecanora flava Stizenberger (1895) no. 578*ter*.
on rocks, Mt. Nhasinde, Zambesi Region, *Menyharth 1209.*

Caloplaca flavorubens (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 239.
Placodium flavorubens Nylander (1868) 510.
Lecanora flavorubens Stizenberger (1890) no. 562.
on rocks, South West Africa, *Welwitsch.*
Precise locality not mentioned: this may be a tropical species, it was also collected by Welwitsch at Cape Verde (Vainio 1901 : 407).

Caloplaca flavovirescens Dalla Torre & Sarnth.

Zahlbruckner, Cat. Lich. VII : 131.
Lecanora erythrella Ach., Stizenberger (1890) no. 577.
Lecanora aurantiaca var. *erythrella* Nyl., Crombie (1876 a) 172.
on rocks, Table Mt., *Eaton.*

Caloplaca gracilescens Zahlbr.

Zahlbruckner (1932) 268 ; van der Byl (1931) 15.
on quartz rocks, Conney Glen, Knysna, *v. d. Byl 640.*

Caloplaca granulosa Jatta.

Zahlbruckner, Cat. Lich. VII : 240.
Placodium subgranulosum Vain., van der Byl (1931) 13.
(?) *Lecanora granulosa* Wedd., Stizenberger (1890) no. 558.
on stone, Langbaan, *v.d. Byl 355 pr. p.* (det. Vain.) ; ? on rocks, Table Mt., *MacOwan.*

Caloplaca haematodes (Massal.) Zahlbr.

Zahlbruckner (1926 c) Pl. 9, f. 7-11 ; (1932) 266, Cat. Lich. VII : 143.
Callopisma haematodes Massalongo (1861) 86 ; Malme (1926) 29.
Lecanora cinnabarina var. *perminiata* Nyl. apud Crombie (1876 a) 171 ; Hue (1891) 48.
Lecanora cinnabarina var. *haematodes* Stizenberger (1890) 198, no. 571
on rocks, Table Mt., *Eaton*, *Balfour*, *MacOwan* ; near Simon's Bay, *Jelinek* ; near Matjesfontein, *Marloth 134* ; near Laingsburg, *Brunnthaler* ; Hanover, Cape, *v. d. Merwe* (v. d. Byl 436 pr. p., det. Vain.) ; Ceres, *Leslie* (v. d. Byl 455, det. Vain, 458, 465, 468, 473).

Caloplaca Hampeana (Massal.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 144.
Pyrenodesmia Hampeana Massalongo (1856) 38.
on bark, Cape of Good Hope.

Caloplaca lamprocheila Flagey

Zahlbruckner, Cat. Lich. VII : 153.
Lecanora lamprocheila (DC.) Nyl., Stizenberger (1890) no. 592.
on rocks, top of Table Mt., *MacOwan*.

Caloplaca leptopisma (Nyl.) Zahlbr. forma.

Placodium leptopismum (Nyl.) Vain. f. *discreta* Vain. in Herb. van der Byl, ? nom. nud.
on stones, Sarnia, *Hean* (v. d. Byl 296, 307, 309, 317) ; Langbaan, *v. d. Byl 355 pr. p.*, Mossel Bay, *v. d. Byl 379* ; Hanover, Cape, *v. d. Merwe* (v. d. Byl 433) ; all det. Vain.

Caloplaca leucoxantha (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 242.
Amphiloma leucoxanthum, Müll. Arg., J. Müller-Arg. (1888) 139.
Lecanora leucoxantha Stizenberger (1890) 195, no. 551.
on branches of **Sarcocaulon** sp., Angra Pequena, *Schinz*.

Caloplaca massula Zahlbr.

Zahlbruckner, Cat. Lich. VII : 156.
Lecanora massula Stizenberger (1890) 201, no. 586.
Lecidea massula Hue (1914) 15.
on bark of pomiferous trees, Lydenburg, *Wilms*, Type.

Caloplaca mastophora (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 587.
Placodium (*Callopisma*) *mastophorum* Vainio (1926) 7 : van der Byl (1931) 15.
on bark of **Royena** sp., near Howick, *v. d. Byl 210*, Type.

Var. **flavorubescens** Vain.

in Herb. van der Byl, ? nom. nud.
on bark of **Celtis Kraussiana** Bernh., Salisbury, *Eyles 3897* (v. d. Byl 548, det. Vain.).

Caloplaca murorum (Hoffm.) Th. Fr.

Zahlbruckner (1932) 269, Cat. Lich. VII : 248.
Lecanora murorum Ach., Drège (1843) 52, 53, 75, 85 ; Crombie (1876 a) 171 ; Stizenberger (1890) no. 553.

on rocks. Table Mt., *Eaton* : on quartz rocks. Hermanus, *v. d. Byl 788 pr. p.* ; Witberg *Drège* ; Piquetberg, *Drège* ; Paarlberg, *Drège*.

Caloplaca Neethlingii Zahlbr.

Zahlbruckner (1936) 175.
on quartzite, Lydenburg, *Neethling* (v. d. Byl 1216), Type.

Caloplaca Nideri Steiner var. **pruinosula** Zahlbr.

Zahlbruckner (1926 a) 543, Cat. Lich. VII : 261.
on crumbling stone, Haifischinsel, off Lüderitzbucht, *Fincke*, Type.

Caloplaca nolens Zahlbr.

Zahlbruckner (1932) 260.
on bark of tree, Victoria Falls, *Brunnthaler*, Type.

Caloplaca Odoardii (Bagl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 160.
Lecanora Odoardii Stizenberger (1890) 200, no. 582.
on bark, near Lydenburg, *Wilms*.

Caloplaca orichalcea (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 161.
Lecanora orichalcea Stizenberger (1890) 199, no. 576.
Lecidea orichalcea Hue (1914) 16.
on granite and basaltic rocks, Lebombo Mts., *Wilms*.

Caloplaca pallidior (Müll. Arg.) Zahlbr.

Zahlbruckner (1932) 266.
Lecanora subfulgescens Nyl., Stizenberger (1890) no. 556 ; (?) van der Byl (1931) 13, as *L. subfulgens*.
Caloplaca cinnabarina var. *pallidior* Jatta. van der Byl (1931) 15.
Caloplaca cinnabarina var. *subfulgescens* Zahlbruckner, Cat. Lich. VII : 102.
on granite Transvaal, *Wilms* ; on schistose rocks, near Bulawayo, *Brunnthaler* ; on rocks, near Salisbury, *Eyles* (v. d. Byl 608) ; near Ceres, *Leslie* (v. d. Byl 614).

f. **opaca** (Müll. Arg.) Zahlbr.

Zahlbruckner (1932) 266.
on sandstone rocks, near Laingsburg, *Brunnthaler*.

Caloplaca perexigua (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 588.
Placodium perexiguum Vainio (1926) 6 : van der Byl (1931) 15.
on rocks, Riversdale, *v. d. Byl 370 pr. p.*, Type.

Caloplaca phlogina Flagey

Zahlbruckner, Cat. Lich. VII : 164.
Lecanora phlogina Nyl., Stizenberger (1890) no. 610.
on bark, near Lydenburg, *Wilms*.

Caloplaca placidia Steiner

Zahlbruckner, Cat. Lich. VII : 165.
Lecanora aurantiaca var. *placidium* Stizenberger (1890) no. 574.
on rocks, near Lydenburg, *Wilms.*

Caloplaca platyna Zahlbr.

Zahlbruckner (1936) 175.
on shale rocks, Nuwe Rus, Namaqualand, *v. d. Byl 1167*, Type.

Caloplaca pyracea Th. Fr.

f. **pyrithromoides** Oliv.

Zahlbruckner, Cat. Lich. VII : 173.
Placodium ferrugineum (Huds.) Hepp. var. *pyrithromoides* Wainio (1901) 407.
on top of rock in Montes Negros, *Welwitsch 51 pr. p. ;* on perpendicular schistose rocks, between Maiombo and Cazimba, *Welwitsch 17 pr. p.*

f. **subpicta** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 173.
Lecanora pyracea f. *picta* Nyl. apud Crombie (1876 a) 172.
Lecanora pyracea var. *picta* (Nyl.) Stizenberger (1890) no. 601.
on rocks, Table Mt., *Eaton.*

Var. **pyrithroma** Flagey.

Zahlbruckner, Cat. Lich. VII : 177.
Lecanora pyracea Nyl. f. *pyrithroma* Nylander (1868) 511 ; Hue (1891) 50 ; Stizenberger (1890) no. 601.
in desert regions, Mossamedes.

Caloplaca pyropoecila (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 178.
Lecanora pyropoecila Nyl. apud Crombie (1876 a) 172, (1876 b) 20 ; Stizenberger (1890) no. 609; Hue (1891) 51 ; van der Byl (1931) 13.
Placodium pyropeocilum Vainio (1921) 59.
on rocks, Table Mt., *Eaton*, Type ; on ironstone, Howick, *v. d. Byl 216* (det. Vain.).

Caloplaca pyropoeciloides Zahlbr.

Zahlbruckner (1932) 263.
on granite rocks, slopes of Table Mt., *Brunnthaler*, Type.

Caloplaca regalis (Vain.) Zahlbr.

Zahlbruckner (1932) 269, Cat. Lich. VII : 275.
on non-calcareous rocks, Bloubergstrand, *v. d. Byl 1041, 1042.*

f. **prostrata** (Hue) Zahlbr.

Zahlbruckner, l.c.
associated with above, *v. d. Byl 1040.*

Caloplaca sophodes (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 589.
Placodium sophodes Vainio (1926) 8 ; van der Byl (1931) 13.
on bark of **Royena** sp., near Howick, *v. d. Byl 207 pr. p.*, Type.

Caloplaca subcerina (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 202.
Lecanora erythroleuca var. *subcerina* Nyl., Stizenberger (1890) no. 627 ; van der Byl (1931) 12.
Placodium subcerinum Vain.
on bark of trees, near Durban, *Wilms ;* on bark of **Royena** sp., Howick, *v. d. Byl 209* (det. Vain. as *Placodium subcerinum*).

Caloplaca subseptata Zahlbr.

Zahlbruckner (1932) 259.
on rocks, Gordon's Bay, *Webb* (v. d. Byl 959) Type.

Caloplaca subsoluta (Nyl) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 185.
Lecanora subsoluta Nyl., van der Byl (1931) 13.
on stone, Hanover, Cape, *v. d. Merwe* (v. d. Byl 430, 434, det. Vain.)

Caloplaca subunicolor (Nyl.) Zahlbr.

Zahlbruckner (1932) 265, Cat. Lich. VII : 185.
Lecanora subunicolor Nyl. apud Crombie (1876 a) 172, (1876 b) 19 ; Stizenberger (1890) no. 578 ; van der Byl (1931) 13.
Lecanora euelpis Stizenberger (1890) 169, no. 575.
Lecidea euelpis Hue (1914) 12.
Caloplaca euelpis Zahlbruckner, Cat. Lich. VII : 116.
on rocks, Table Mt., *Eaton ;* Cape, *MacOwan ;* Ceres, *Leslie* (v. d. Byl 470, det. Vain.) ; on hill near Port Elizabeth, *Brunnthaler.*

Caloplaca sympageella (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 589.
Placodium sympageellum Vainio (1926) 6 ; van der Byl (1931) 15.
on rocks, Howick, *v. d. Byl 220,* Type, *217 pr. p.* (det. Vain.).

Caloplaca tegularis Sandst.

Zahlbruckner, Cat. Lich. VII : 267.
Physcia pusilla Massalongo (1852 a) 567.
Lecanora murorum var. *pusilla* Wedd., Stizenberger (1890) no. 553.
on rocks, near Saldanha Bay, *Breutel.*

Caloplaca teicophila (Massal.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 189.
Callopisma teicophilum Massalongo (1861) 86.
on schistose rocks, Cape, *Wawra.*

Caloplaca theloschistoides Zahlbr.

Zahlbruckner, (1921) 241, (1926 b) 544, Cat. Lich. VII : 275.
on non-calcareous rocks, Haifischinsel, off Lüderitzbucht, *Fincke.*

Caloplaca zambesica (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 201.
Callopisma zambesicum Müll. Arg., J. Müller-Arg. (1893 b) 297.
Lecanora zambesica (Müll. Arg.) Stizenberger (1895) no. 578*bis*.
on rocks, near Boroma, *Menyharth 1210, 1213.*

TELOSCHISTACEAE.

Teloschistes capensis Malme

Malme (1926) 47 ; Zahlbruckner (1926 c) Pl. 5, f. 7-8, Cat. Lich. VII : 311. Hillman (1930) 323.

Lichen capensis Linnaeus f. (1781) 451 ; Hoffman (1784) 94, Tab. XIX f. 2, XX f. 2 ; Lamarck (1789) 507 ; Gmelin (1791) 1379 ; Acharius (1798) 182 ; Thunberg (1800) 179, (1923) 748.

Usnea capensis Hoffman (1790) 48, Tab. X f. 1 ; Roumeguère, (1868) 35, Tab. VI, LVII.

Borrera capensis Acharius (1810) 503, Tab. IX f. 5.

Borrera pubera v. *capensis* Acharius (1814) 224.

Physcia capensis de Notaris (1847) 196, (1849) 386, f. 15 ; Massalongo (1852 a) 563, (1852 b) 34 ; Juel (1918) 49.

Tornabenia capensis Massalongo (1853) 42.

Blastenia capensis Trevisan (1853) 2.

Physcia chrysophthalma var. *capensis* Nylander (1857) 106, (1860 a) 410; Stirton (1877) 215 ; Hue (1890) 315 ; Stizenberger (1890) no. 414.

on branches of shrubs, Tygerberg and die Swartland, *Thunberg ;* on tree trunks, Cape, *Breutel, Rehmann ;* on **Lycium** sp. and **Cotyledon paniculata,** Cape Point, *C. A. Smith,* 727.

f. **puber** Malme

Malme (1926) 47 ; van der Byl (1933 a) 15 ; Zahlbruckner, Cat. Lich. VII : 312.

Borrera pubera Acharius (1810) 502 ;

on bark, South Africa.

Teloschistes chrysocarpoides Wain.

Wainio (1900 b) 4 ; Zahlbruckner, Cat. Lich. VII : 318.

on branches of trees, Hereroland, *Dinter 50.*

Teloschistes chrysophthalmus (Linn.) Beltr.

Steiner (1907) 641 ; Zahlbruckner (1926 c) Pl. 2. figs. 1-2, (1932) 269, Cat. Lich. VII : 269 ; van der Byl (1931) 15, (1933 a) 14.

Borrera chrysophthalma Ach., Drège (1843) 94, 105, 133.

Tornabenia africana Massalongo (1861) 84.

Evernia chrysophthalma Flotow, von Flotow (1843) 24 ; Krauss (1846) 202.

Teloschistes africanus Zahlbruckner (1926 c) Pl. 2, figs. 3-7.

Physcia chrysophthalma (Linn.) DC., Stirton (1877) 215 ; Crombie (1876 a) 170 ; Stizenberger (1890) no. 414.

on bark and branches, near Gouritz River ; Table Mt., *Eaton, v. d. Byl ;* Table Mt. and Devils Peak, *Drège ;* Garip, near the mouth of the Orange River, *Drège ;* Enon, *Drège ;* Robertson, *Bruwer* (v. d. Byl 408, det. Vain.) ; Piquetberg, *v. d. Byl ;* Jansenville, *Slabbert* (v. d. Byl 701) ; Stellenbosch, *Duthie 2 ;* Transvaal, without locality, *v. d. Byl ;* Cape, *?MacOwan ;* on **Cydonia oblonga** Mill., Umtali, *Eyles 4287* (v. d. Byl 571, det. A. L. Sm.) ; on **Prunus salicina** Lindl., Klapmuts, *v. d. Byl 984* (det. Merrill) on **Acacia Karroo** Hayne, near Berg River, Stellenbosch, *Krauss.*

f. **armatus** (Rabenh.) Hillm.

Hillman (1930) 312 ; van der Byl (1933 a) 14 ; Zahlbruckner, (1932) 270, Cat. Lich. VII : 270.

on branches of **Rhus glauca** Desf., near Still Bay, *Muir* (v. d. Byl 967).

f. **cinereus** Müll. Arg.

Zahlbruckner (1926 b) 548, Cat. Lich. VII : 316.

on bark of **Quercus** sp., Genadendal, near Caledon, *Brunnthaler ;* on bark, Löwenberg, *Zeyher no. 8* (as *Parmelia capensis* Ach.).

Var. **dilatatus** Hillm.

Hillman (1930) 312 ; van der Byl (1933 a) 15 ; Zahlbruckner, Cat. Lich. VII : 317.

Physcia chrysophthalma var. *dilatata* Stizenberger (1890) 176, no. 414.

on bark, Transvaal, *McLea ;* Knorhoek, Sir Lowry Pass, *Fischer*, 1612.

Var. **pulvinaris** Zahlbr.

Zahlbruckner (1926 b) 549, Cat. Lich. VII : 318 ; Hillman (1930) 312 ; van der Byl (1933 a) 15.

on old **Casuarina** tree, Port Elizabeth, *Brunnthaler*.

Teloschistes costatus Hillm.

Hillman (1930) 327 ; van der Byl (1933 a) 15 ; Zahlbruckner, Cat. Lich. VII : 318.

Teloschistes flavicans (Sw.) Norm. var. *costatus* Steiner (1897) 214 ; Zahlbruckner (1926 b) 548.

on thorn bushes, Despatch, *Brunnthaler ;* on trees and shrubs, East London, *Wager*, 757 ; Jeffreys Bay, *Kapp*, 1765 ; Fort Beaufort, *Schaefer*, 2031.

Teloschistes exilis (Michx.) Vain.

Hillman (1930) 335 ; van der Byl (1931) 15.

Physcia exilis Michx., Stizenberger (1890) no. 409.

Physcia flavicans var. *exilis* Nylander (1860 a) 407.

Teloschistes flavicans var. *exilis* (Michx.) Müll. Arg., Zahlbruckner, (1926 b) 548, Cat. Lich. VII : 322 ; van der Byl (1933 a) 17.

on thorn bushes, Haifischinsel, off Lüderitzbucht, *Fincke ;* on **Cydonia oblonga** Mill. Umtali, *Eyles 4287 ;* on branches of **Acacia** sp., Eteza, Zululand, *v. d. Byl 123* (det. Vain.) ; on trunks, Woodbush, *v. d. Byl* 521 pr. p. ; Cape Town, *Eyles* (v. d. Byl 403 and *v. d. Byl ;* Kwaggakama, *Christian*, 742 ; Bushbuck Ridge, *Wager*, 1474 ; ? Kentani, *Pegler* (S.A.M. 46899) ; East London, *Pegler* (S.A.M. 46949) ; Blue Lilies Bush-Humansdorp, *Woodcock* (S.A.M. 46930).

Var. **dealbatus** Hillm.

Hillman (1930) 335.

Evernia flavicans var. *dealbata* von Flotow (1843) 24, ; Krauss (1846) 202.

Teloschistes flavicans var. *dealbatus* Zahlbruckner, Cat. Lich. VII : 322.

on twigs in bush, Highbury, *Doidge*, 1540 ; Rosetta, *T. R. Sim*, 1441 ; on bark of **Acacia decurrens** Willd., Mountain Home Farm, Woodbush, *Mogg*, 1562 ; on **Gymnosporia** sp., near Uitenhage, *Krauss*.

Var. **pulvinatus** Hillman

Hillman (1930) 335.

Teloschistes flavicans var. *pulvinatus* Zahlbruckner, Cat. Lich. VII : 324.

on twigs of **Acacia Karroo** Hayne, **Prunus persica** Sieb. & Zucc., and other trees, Kentani, *Pegler 1227*, 156.

Teloschistes flavicans (Sw.) Norm.

Zahlbruckner (1926 b) 547, Cat. Lich. VII : 319 ; Hillman (1930) 329 ; van der Byl (1933 a) 16.

Lichen flavicans Sw., Thunberg (1800) 179, (1823) 748.

Evernia flavicans von Flotow (1843) 24 ; Krauss (1846) 202.
Tornabenia flavicans Massalongo (1861) 48.
Borrera flavicans Ach., Drège (1843) 133.
Physcia flavicans (Sw.) DC., Crombie (1876 a) 170 ; Stizenberger (1890 & 1895) no. 408.
amongst moss and on rocks and tree trunks, Cape, *Wawra ;* Muizenberg mountain, *Mac-Owan* (S.A.M. 46962) ; on branches of trees, Table Mt., *Eaton ;* on thorn bushes, Despatch, *Brunnthaler ;* Green Point, *v. d. Byl ;* Saldanha Bay, *Thunberg ;* Pondoland, *Bachmann ;* Garcia's Pass, Riversdale, *Thorne* (S.A.M. 38881) ; on twigs, Kaaimansgat Forest, *Mogg*, 1972 ; Enon, *Drège.*

f. **minor** Cromb.
Hillman (1930) 335 ; Zahlbruckner, Cat. Lich. VII : 321 ; van der Byl (1933 a) 16.
Physcia flavicans var. *minor* Crombie (1876 a) 170 ; Stizenberger (1890) no. 408 ; Gepp (1911) 244.
on branches, Table Mt., *Eaton ;* on trees, near Chirinda, *Swynnerton 883.*

Var. **croceus** Müll. Arg.
J. Müller-Arg. (1893 c) 510 ; Hillman (1930) 333 ; Zahlbruckner, Cat. Lich. VII : 322 ; van der Byl (1933 a) 16.
Physcia flavicans var. *crocea* Jatta, Stizenberger (1895) no. 408.
on branches, Pondoland, *Bachmann ;* Cape, *Rehmann, Ecklon, Drège.*

Var. **intermedius** Müll. Arg.
J. Müller-Arg. (1893 c) 510 ; Stizenberger (1895) no. 408 ; Hillman (1930) 333.
Teloschistes flavicans var. *maximus* Zahlbruckner, Cat. Lich. VII : 323.
on branches, Pondoland, *Bachmann.*

Var. **puberus** Müll. Arg.
Zahlbruckner, Cat. Lich. VII : 324.
Borrera pubera Acharius (1810) 502, (1814) 223 ; Drège (1843) 94, 108, 132.
Physcia chrysophthalma var. *pubera* Nylander (1860 a) 410.
Teloschistes flavicans var. *puber* Hillman (1930) 334.
on dry stony hills, Ebenezar, *Drège ;* Garip, near the mouth of the Orange River, *Drège ;* Samteesvlakte, *Drège ;* Enon, *Drège.*

Teloschistes hypoglaucus (Nyl.) Zahlbr.
Hillman (1930) 338 ; van der Byl (1933 a) 17 ; Zahlbruckner, Cat. Lich. VII : 328.
Physcia hypoglauca Nylander (1860 a) 409, (1869 a) 6 ; Hue (1890) 314 ; Stizenberger (1890) no. 413.
Niorma derelicta Massalongo (1861) 84.
Teloschistes derelictus Zahlbruckner (1926 c) Pl. 2, figs 8-12.
on branches and twigs, Cape, *Wawra, Ecklon, Zehler ;* Barberton, *Burtt-Davy*, 174 ; in bush, Highbury, *Doidge*, 1539 ; Giants Castle, *Symons* 1422 ; along Inanda Valley, between Krantzkop and Greytown, *R. A. Dyer*, 1828 ; on twigs of **Pyrus malus** Linn. Bethlehem, *Saayman*, 1590 ; Zomershoek, Wakkerstroom, *Pienaar*, 175 ; on twigs of **Pyrus** and **Prunus** spp., *Pont & v. Elden ;* on twigs of **Rhus refracta** E. & Z., on hill west of Tidbury's Toll, *Turner*, 1863 ; on branch of **Acacia Karroo**, Hayne, Doornbosch, Somerset East, *Turner*, 1872.

Teloschistes perrugosus Müll. Arg.
J. Müller-Arg. (1891) 376 ; Hillman (1930) 317 ; Zahlbruckner, Cat. Lich., VII : 325.
Physcia perrugosa Stizenberger (1893) 90, no. 411 *bis.*
near Lupata in the Zambesi region, *Kirk.*

Teloschistes scorigenus (Mont.) Wain.

Wainio (1901) 407 ; Zahlbruckner, Cat. Lich. VII : 325.
Lecanora scorigena (Mont. (Nylander (1868) 510 ; Hue (1891) 47 ; Stizenberger (1890) no. 543.
on calcareous rocks, near Cabo negro, *Welwitsch 22.*

Teloschistes validus (Müll. Arg.) Hillm.

Hillman (1930) 326.
Teloschistes flavicans (Sw.) Norm. var. *validus* Müll. Arg., Zahlbruckner, Cat. Lich. VII : 324.
on twigs, Inanda, *Medley Wood 644*, 1697 ; Port Alfred, *Penfield*, 178 ; Lourenço Marques, *Junod*, 185 ; Jeffrey's Bay, *Kapp*, 1764 ; Kaaimansgat Forest, *Mogg*, 1972 ; Kidds Beach, *Schaefer*, 2027.

Teloschistes verrucosus Hillm.

Hillman (1930) 325 ; van der Byl (1933 a) 13 ; Zahlbruckner, Cat. Lich. VII : 327
on bark, Duikervallei, Tygerberg, *Lindley Exped.* ; Cape, *Drège* ; without locality, *Marlot 6406* ; 1517 ; Orange River Mouth, near Alexander Bay, *Orpen*, 736.

Teloschistes villosus Norm.

Zahlbruckner, Cat. Lich. VII : 325.
Physcia villosa Duby, Schultze (1907) 706.
on **Marlothia africana** Engl., Kwatsane, Kalahari, *Schultze 23.*

Xanthoria candelaria Kickx.

f. **fibrillosa** Hillm.

Hillman (1922) 201 ; Zahlbruckner (1926 b) 547, Cat. Lich. VII : 282.
on branches of a shrub, Namaqualand, *Marloth 6405*, ? 1516.

Var. **semigranularis** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 287.
Physcia lychnea (Ach.) Nyl. var. *semigranularis* Stizenberger (1890) 177, no. 420.
Teloschistes controversus var. *semigranularis* Müll. Arg., J. Müller-Arg. (1887 a) 319.
on bark, near Lydenburg, *Wilms.*

Xanthoria ectaneoides (Nyl.) Zahlbr.

Zahlbruckner (1932) 269, Cat. Lich. VII : 287 ; van der Byl (1931) 15, (1933 (a) 12,
Physcia ectaneoides Nyl., Stizenberger (1890) no. 419.
Xanthoria parietina (Linn.) Beltr. var. *ectaneoides* (Nyl.) Zahlbr., Hillman (1920, 4, 20.
on rocks, Table Mt., *Jelinek* ; Onrust, *v. d. Riet* (v. d. Byl 804) ; Hermanus, *Louwrens* 1734.

Xanthoria flammea (Linn. f.) Hillm.

Hillman (1932) 192, 206 ; Zahlbruckner (1926 b) 545, (1926 c) Pl. 1, f. 11-1 (1932) 269, Cat. Lich. VII : 309 ; van der Byl (1931) 15, (1933 a) 10.
Lichen flammeus Linnaeus f. (1781) 451 ; Thunberg (1800) 179, (1823) 747.
Dufourea flammea Acharius (1810) 524, (1814) 246 ; Juel (1918) 49.
Parmelia flammea Ach., von Flotow (1843) 27 ; Krauss (1846) 201.
Physcia flammea Nylander (1860 a) 412 ; Stizenberger (1890) no. 321.
Physcia flammula Nyl., Schultze (1907) 706.
Physcia holoxantha Nylander (1869 a) 6, not.

on bark of shrubs and trees, near Saldanha Bay, *Thunberg ;* Lamberts Bay, *Brauns ;* near Swellendam, *Krauss ;* without locality, *Pappe* (S.A.M. 46881) ; near Swakopmund, *F. & R. Wettstein ;* Table Mt., *Eaton ;* South Africa, without locality, *Breutel* (Herb. Krempelhuber) ; on dead plants, Possession Is., *Schultze 22 ;* on thorn bush, *Haifischinseln* off Lüderitzbucht, *Fincke ;* on **Cassine sphaerophylla** O. Ktze., Platbos near Stilbaai, *Muir* (v. d. Byl 970) ; on branches of **Lycium horridum** L., ' in insula Phocarum ', near Table Bay.

Var. **podetiifera** Hillm.

Hillman (1922) 207 ; Zahlbruckner, Cat. Lich. VII : 309.

on **Asparagus capensis** and **Lycium** sp., Bozenfels, *Dinter*, 1502 ; on shrubs, Lamberts Bay, *v. d. Merwe*, 1720 ; Saldanha Bay, *Marloth 106*, 1519 ; Alexander Bay, *Orpen*, 735 ; on dead twigs of **Lycium horridum** L., *MacOwan*, 319.

Xanthoria Marlothii Zahlbr.

Zahlbruckner (1926 b) 544, Cat. Lich. VII : 288 ; van der Byl (1933 a) 10.

on sandstone, Steinkopf Distr., Little Namaqualand, *Marloth 6320.*

Xanthoria parietina (Linn.) Beltr.

Zahlbruckner (1926 b) 547, (1932) 269, Cat. Lich. VII : 288 ; van der Byl (1931) 15, (1933 a) 11.

Parmelia parietina Ach., Drège (1843) 85, 94, 108, 133.

Physcia parietina (L.) de Not., Crombie (1876 a) 170 ; Stirton (1877) 215 ; Stizenberger (1890) no. 415.

on branches and twigs of trees undet., Table Mt., *Eaton ;* Kloof Neck. *Brunnthaler ;* Ceres, *Leslie* (v. d. Byl 611) ; near Stilbaai, *v. d. Byl 968 ;* Paarlberg, *Drège ;* Enon, *Drège ;* Garip, near the mouth of the Orange River, *Drège ;* on dry stony hills, Ebenezar, *Drège ;* Boschberg, *MacOwan 525* (S.A.M. 46913) ; Robertson, *Bruwer* (v. d. Byl 414) ; Piquetberg, *v. d. Byl ;* Woodbush, *v. d. Byl 521 pr. p. ;* on **Cassine sphaerophylla** O. Ktze, near Stilbaai, *J. Muir ;* on **Myoporum acuminatum** R. Br., near Stilbaai, *J. Muir ;* on **Nerium Oleander** Linn., Hopefield, *v. d. Byl 146* (det. Vain.) ; on **Populus alba** Linn., Liesbeck River *MacOwan ;* **Populus** sp., Klapmuts, *v. d. Byl 85* (det. Merrill) ; on **Portulacaria afra** Jacq., Zwartkops, *Brunnthaler ;* on **Prunus persica** Sieb. & Zucc., Klapmuts, *v. d. Byl 92 ;* on **Punica granatum** Linn., Hopefield, *v. d. Byl 395* (det. Vain.) ; on **Quercus** sp., Klapmuts, *v. d. Byl 82* (det. Merrill) ; on **Sideroxylon inerme** Linn., near Stilbaai, *J. Muir.*

on rocks, Klapmuts, *v. d. Byl 93 ;* on stones, Onrust, *v. d. Riet ;* Gouritz Rivier, v. d. Byl 321 ; on cement wall, Cape Town, *Eyles* (v. d. Byl 387).

f. **albicans** (Müll. Arg.) Hillm.

Hillman (1920) 2, 14 ; Zahlbruckner, Cat. Lich. VII : 295.

Physcia parietina f. *albicans* Müll. Arg., J. Müller-Arg. (1890) 338 ; Stizenberger (1893) no. 415.

South Africa, *MacOwan*, 337.

f. **rutilans** Th. Fr.

Zahlbruckner, Cat. Lich. VII: 297.

Physcia parietina var. *rutilans* Stizenberger (1890) 176, no. 415.

on branches of shrubs, Cape, *Drège.*

Var. **aureola** (Ach.) Th. Fr.

Steiner (1907) 641 ; Hillman (1920) 18 ; van der Byl (1933 a) 11.

Physcia parietina var. *aureola* Körb., Crombie (1876 a) 170 ; Stizenberger (1890) no. 415.

on bark of trees, Table Mt., *Eaton ;* Stellenbosch, *Duthie 6.*

Var. **ectanea** (Ach.) Kickx.

Zahlbruckner (1926 b) 547, Cat. Lich. VII : 298 ; van der Byl (1933 a) 11.

Physcia parietina var. *ectanea* (Ach.) Nylander (1860 a) 411 ; Hue (1890) 315 ; Stizenberger (1890) no. 418.

on branches of shrubs and on calcareous stones, Cape, *Drège ;* on **Quercus** sp., Genadendal, *Brunnthaler.*

Var. **macrophylla** (Stizenb.) Hillm.

Hillman (1920) 7, 16 ; Zahlbruckner, Cat. Lich. VII : 302 ; van der Byl (1933 a) 12.

Physcia macrophylla Stizenberger (1890) 177, no. 418 ; Zahlbruckner, Cat. Lich. VII : 646.

on cortex of **Sparmannia** sp., Table Mt., *Jelinek.*

Xanthoria turbinata Wain.

Wainio (1900 b) 4 ; van der Byl (1933 a) 12.

on branches of **Punica granatum** Linn., Hopefield, *v. d. Byl 395 pr. p.* (det. Vain.) ; on branches, Hereroland, *Dinter 49, 49 b.*

BUELLIACEAE.

Buellia abstracta Oliv.

Zahlbruckner, Cat. Lich. VII : 330 ; van der Byl (1931) 16.

on stone, Hopefield, *v. d. Byl 341* (det. Vain.).

Buellia aethalea (Ach.) Th. Fr.

Zahlbruckner (1926 b) 549, (1932) 272, Cat. Lich. VII : 331.

Lecidea aethalea Nyl., Stizenberger (1891) no. 1132.

Lecidea atroalbella Nyl., Stizenberger (1891) no. 1131.

Melanaspicilia aethalea Wain., Herb. v. d. Byl.

as *Rinodina aethalea* (Ach.), van der Byl (1931) 16.

on rocks, Kloof Neck, Cape Town, *Brunnthaler ;* Table Mt., *MacOwan, Jelinek ;* Caledon, *v. d. Byl 365* (det. Vain.) ; Spitzkop, near Lydenburg, *Wilms.*

Buellia aethaloëssa (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 333.

Lecidea aethaloëssa Stizenberger (1891) 166, no. 1133.

on quartzite rocks, near Muizenberg, *MacOwan,* Type.

Buellia afra Wain.

Wainio (1901) 415 ; Zahlbruckner, Cat. Lich. VII : 333.

Buellia africana Müll. Arg., J. Müller-Arg. (1879) 292, (1893) 292.

Lecidea afra Stizenberger (1891 & 1895) 163, no. 1120.

on rocks, near Boroma, Lower Zambesi, *Menyharth 6.*

Buellia africana Tuckerm.

Tuckerman (1888) 160 ; J. Müller-Arg. (1893 b) 298 ; Schinz (1905) 395 ; Zahlbruckner, Cat. Lich. VII : 433, 458.

Lecidea africana Tuckerman (1860) 406 ; Stizenberger (1891) no. 1184.

Catalechia africana Müll. Arg., J. Müller-Arg. (1881) 510.

on rocks, Saldanha Bay, *Zeyher ;* on sandstone rocks, near Simonstown, *Wright ;* Table Mt., *MacOwan ;* near Boroma, *Menyharth 6.*

Buellia albinea Müll. Arg.

Zahlbruckner, Cat. Lich. VII : 334.
Lecidea albinea Stizenberger (1891) 168, no. 1141.
on quartzite rocks, Lebombo Mts., *Wilms.*

Buellia albula Müll. Arg.

Zahlbruckner, Cat. Lich. VII : 334.
Lecidea albula Nyl., Stizenberger (1891) no. 1147.
on wood, Saldanha Bay, *Breutel.*

Buellia ambusta Zahlbr.

Zahlbruckner, Cat. Lich. VII : 334, as *B. ambuta.*
Lecidea ambusta Stizenberger (1891) 174, no. 1170.
on bark of a tree of the family Malvaceae, near Durban, *Wilms*, Type.

Buellia anatolodia Massal.

Massalongo (1861) 67 ; Zahlbruckner, Cat. Lich. VII : 335.
Lecidea anatolodia Krempelh., Stizenberger (1891) no. 1137.
on rocks, Cape, *Wawra.*

Buellia Brugierae Vain,

Vainio (1926) 14 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 591
on bark of **Bruguiera gymnorhiza**, near Durban, *v d. Byl 138*, Type.

Buellia Brunnthaleri Zahlbr.

Zahlbruckner, Cat. Lich. VII : 340.
Buellia angulosa Steiner, apud Zahlbruckner (1926 b) 549, non. B. de Lesd.
on quartzite rocks, above the baths, Caledon, *Brunnthaler.*

Buellia callaina (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 341.
Lecidea callaina Stizenberger (1891) 172, no. 1166.
on sandstone rocks, Lions Head, *MacOwan*, Type.

Buellia callispora var. **tetrapla** Steiner

Steiner (1907) 645 ; Zahlbruckner (1926 b) 551, (1932) 272, Cat. Lich. VII : 341.
on bark, Mt. Mamotsuiri, *Junod 997 pr. p.*, Type ; on rind of **Portulacaria afra** Jacq., Zwartkops near Port Elizabeth, *Brunnthaler.*

Buellia callisporoides Vain.

Lynge (1937) 78 (not *B. callisporoides* Steiner, see Zahlbruckner, Cat. Lich. VII : 341).
on rocks, Riversdale, *v. d. Byl*, Type.

Buellia cangoënsis Vain.

Vainio (1926) 15 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 591.
on bark of leafy tree, near Cango Caves, Oudtshoorn, *v. d. Byl 381.*

Buellia coeruleata (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 343.
Lecidea coeruleata Stizenberger (1891) 168, no. 1142.
on quartzite rocks, Cape, *MacOwan*, Type.

Buellia contingens Zahlbr.

Zahlbruckner, Cat. Lich. VII : 346.
Lecidea contingens Nyl. apud Crombie (1876 a) 178 ; Hue (1891) 144 ; Stizenberger (1891) no. 1176.
on rocks, Table Mt., *Eaton*, Type.

Buellia dialytella Vain.

Vainio (1926) 15 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 591.
on bark of **Royena** sp., near Howick, *v. d. Byl 207 pr. p.*, Type.

Buellia diorista (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 349 ; van der Byl (1931) 16.
on tree trunk, Stella Bush, *Verwoerd* (v. d. Byl 399, det. Vain.) ; on stem of shrub, Robertson, *Bruwer* (v. d. Byl 412, det. Vain.).

Buellia disciformis (Fr.) Mudd.

Zahlbruckner (1932) 270, Cat. Lich. VII : 349.
Lecidea disciformis Nylander (1869 a) 12 ; Stizenberger (1891 & 1895) no. 1160.
Buellia parasema var. *disciformis* Th., Fr., J. Müller-Arg. (1893 b) 298 ; Schinz (1905) 395.
on bark, near Lydenburg and in Schiffberg Mt., *Wilms* (Lojka, Licheboth. univ. 84) ; Natal ; Salisbury, *v. d. Byl 602 ;* near Boroma, *Menyharth 262 ;* Durban, *Armstrong*.

f. **vulgata** Oliv.

Zahlbruckner, Cat. Lich. VII : 352.
Buellia parasema var. *vulgata* Th., Fr., J. Müller-Arg. (1893 b) 298 ; Schinz (1905) 395.
on bark, near Boroma, *Menyharth 463, 466, 470*.

Var. **cinereopruinosa** Vain.

van der Byl (1931) 16, ? nom. nud.
on trunk of tree, Eshowe, *v. d. Byl 186*.

Var. **lecanactina** Steiner

Steiner (1907) 645 ; Zahlbruckner, Cat. Lich. VII : 353.
on bark, Mt. Mamotsuiri, *Junod 997 pr. p.*, Type, *998 pr. p.*

Var. **sanguinea** (Müll. Arg.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 354.
Buellia parasema var. *sanguinea* Müll. Arg., J. Müller-Arg. (1888) 207.
Lecidea disciformis var. *sanguinea* Stizenberger (1891) 171, no. 1160.
on bark, Lydenburg, Wilms.

Buellia discolorans (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 356.
Lecidea discolor Stizenberger (1891) 173, no. 1168 (as *L. discors*).
on bark of **Rhamnus** sp., near Uitenhage, *Breutel*, Type.

Buellia dispersa Massal.

Zahlbruckner (1926 b) 551, Cat. Lich. VII : 356.
on sandstone, Port Elizabeth, on hill east of town, *Brunnthaler.*

Buellia distrahens Vain.

Vainio (1926) 13 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 591.
on sandstone, Stellenbosch, *v. d. Byl 248*, Type.

Buellia distrata (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 357.
Lecidea distrata Nyl. apud Crombie (1876 a) 179 ; Stizenberger (1891) no. 1151 ; Hue (1891) 140.
on quartzite rocks, Table Mt., *Eaton*, Type.

Buellia durbana Vain.

Vainio (1926) 17 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 592.
on wood, Durban, *v. d. Byl 168*, Type.

Buellia endorhodina Vain.

Lynge (1937) 79.
on bark, Stella Bush, *v. d. Byl 181*, Type.

Buellia epichlora (Vain.) Zahlbr.

Zahlbruckner, Cat. Lich. VIII : 592.
Melanaspicilia epichlora Vainio (1926) 11 ; van der Byl (1931) 16.
on sandstone, Stellenbosch, *v. d. Byl 249*, Type.

Buellia glencairnensis Zahlbr.

Zahlbruckner (1936) 177.
on sandstone, Glencairn, *v. d. Byl 977*, Type.

Buellia halonia (Ach.) Tuck.

Zahlbruckner, (1926 c) Pl. 9, f. 1-2, Cat. Lich. VII : 365.
Lecidea halonia Ach., Stizenberger (1891) 176, no. 1183.
Baeomyces capensis Taylor (1847) 186.
Buellia catalipa Massalongo (1861) 69.
on maritime rocks, Cape, *Osbeck ;* on rocks, Table Mt., *Wawra, Eaton, MacOwan ;* Lions Head, *MacOwan ;* on granite, Cape of Good Hope (Herb. Hook.).

Buellia incrustans Steiner

Zahlbruckner (1926 b) 550, Cat. Lich. VII : 369.
on branches, Haifischinsel, off Lüderitzbucht, *Fincke.*

Buellia incuriosa (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 369.
Lecidea incuriosa Nyl. apud Crombie (1876 a) 178, (1876 b) 21 ; Hue (1891) 140 ; Stizenberger (1891) no. 1152.
on rocks, Table Mt., *Eaton*, Type.

Buellia inquilina Tuckerm.

J. Müller-Arg. (1893 b) 298 ; Schinz (1905) 396 ; Zahlbruckner, Cat. Lich. VII : 370.

Lecidea inquilina Stizenberger (1895) 253, no. 1207.

near Boroma, Lower Zambesi, *Menyharth 467*.

Zahlbruckner, l.c., records this species only from California, and says that it appears to be a fungus.

Buellia insidians (Nyl.) Zahlbr.

van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VII : 370.

on stone, Caledon, *v. d. Byl 362* (det. Vain.).

Buellia italica Massal.

Zahlbruckner, Cat. Lich. VII : 373.

Lecidea italica Wedd., Stizenberger (1891) 165, no. 1127.

on rocks, Cape, *MacOwan*.

Var. **debanensis** Bagl.

Zahlbruckner, Cat. Lich. VII : 373.

Lecidea italica var. *debanensis* Stizenberger (1891) 165, no. 1127.

on rocks, near Lydenburg, *Wilms*.

Var. **recobarina** Massal.

Zahlbruckner, Cat. Lich. VII : 373 ; Massalongo (1861) 70.

Lecidea italica var. *recobarina* Stizenberger (1891) 165, no. 1127.

on sandstone rocks, Table Mt., *Wawra*.

Buellia langbaanensis Vain.

Vainio (1926) 11 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 592.

on granite, Langbaan, *v. d. Byl 354*, Type.

Buellia Lauri-cassiae (Fée) Müll. Arg.

Zahlbruckner, Cat. Lich. VII : 451.

Lecidea triphragmia Nylander (1869 a) 12 ; Stizenberger (1891) no. 1158 ; Hue (1891) 143.

on bark, Durban, *Armstrong*.

Var. **macrosperma** Zahlbr.

Zahlbruckner (1932) 272.

on branches of **Canthium** sp., Brenton, Knysna, *v. d. Byl 649, 652*.

Buellia leucina Müll. Arg.

Zahlbruckner, Cat. Lich. VII : 377.

Lecidea leucina Stizenberger (1891) 164, no. 1121.

on rocks, near Lydenburg, *Wilms*.

Buellia lutata (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 378.

Lecidea lutata Stizenberger (1891) 164, no. 1123.

on rocks, in Warm Bokkeveld Mts., near Ceres, *MacOwan*.

Buellia meizocarpa Vain.

Vainio (1926) 12 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 593.
on rock, Sarnia, *Hean* (v. d. Byl 305, 311. det. Vain.).

Buellia melanthina (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 380.
Lecidea melanthina Stizenberger (1891) 173, no. 1169.
on branches of shrub, Cape, *Drège*, Type.

Buellia micromera Vain.

Vainio (1926) 14 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 593.
on bark of **Strychnos** sp., Matopos, *v. d. Byl 165*.

Buellia microsperma Müll. Arg.

J. Müller-Arg. (1886) 309 ; Zahlbruckner, Cat. Lich. VII : 381.
Lecidea nanosperma Stizenberger (1891) 164, no. 1122.
on stones, near Lydenburg, *Wilms* (Lojka Lichenoth. univ. 85), Type.

Buellia natalensis Vain.

Vainio (1926) 16 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 593.
on bark of **Combretum** sp., near Howick, *v. d. Byl 212*, Type ; on trunk of tree undet., Howick, van der Byl 221 (det. Vain.).

Buellia nesiotis (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 383.
Lecidea nesiotis Stizenberger (1891) 175, no. 1178.
on granite rocks, top of Lions Head, *MacOwan*, Type.

Buellia Ocoteae Vain.

Vainio (1926) 15 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VIII : 583.
on bark of **Ocotea bullata** E. Mey., near Knysna, *v. d. Byl 263*, Type.

Buellia oleicola (Nyl.) Zahlbr.

van der Byl (1931) 16 ; Schinz (1905) 396 ; Zahlbruckner, Cat. Lich. VII : 385.
Lecidea olivacea Stizenberger (1895) no. 1137*bis*.
on trunk of **Eucalyptus** sp., Mossel Bay, *v. d. Byl 376* (det. Vain.).

Buellia olivacea Müll. Arg.

J. Müller-Arg. (1893 b) 298 ; Zahlbruckner, Cat. Lich. VII : 385.
on rocks, near Boroma, *Menyharth 6*.

Buellia pachnodes (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 385.
Lecidea pachnodes Stizenberger (1891) 172, no. 1165.
on sandstone rocks, near Muizenberg, *MacOwan*, Type.

Buellia pachysporoides Vain.

Lynge (1937) 80 ; van der Byl (1931) 16.
on rocks, Langbaan, *v. d. Byl 537, 539, 542, 546* (Number of type not quoted by Lynge).

Buellia perigrapta (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 387.
Lecidea perigrapta Stizenberger (1891) 167, no. 1140.
on fragments of granite rocks, Lions Head, *MacOwan*, Type.

Buellia permodica (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 387.
Lecidea permodica Stizenberger (1891) 168, no. 1143.
on sandstone rocks, near Muizenberg, *MacOwan*, Type.

Buellia perspersa Steiner

Zahlbruckner (1926 b) 551, Cat. Lich. VII : 389.
on ring of **Portulacaria afra** Jacq., Zwartkops River, near Port Elizabeth, *Brunnthaler*.

Buellia praelata (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 390.
Lecidea praelata Stizenberger (1891) 174, no. 1171.
on bark, Schiffberg Mt., *Wilms ;* on bark of a tree of the family Malvaceae, near Durban *Wilms*, Type : on bark of **Rhus** sp., Hopefield, v. d. Byl 337 (det. Vain.) ; on bark of shrub undet., Robertson, *Bruwer* (v. d. Byl 409, 410, det. Vain.).

Buellia procellarum Massal.

Massalongo (1861) 64 ; Jatta (1910) 197 ; Zahlbruckner (1926 b) 551, Cat. Lich. VII : 390.
Lecidea procellarum Stizenberger (1891) 174, no. 1172.
on various hard rocks, Devil's Peak, *Wawra ;* Boschberg, *MacOwan ;* Löwenberg, *MacOwan ;* near Muizenberg, *MacOwan*.

Var. **continuior** Steiner

Zahlbruckner (1926 b) 551.
as *Buellia proserpens* Müll. Arg. var. *continuior* Steiner, Zahlbruckner, Cat. Lich. VII : 390.
on quartzite rocks, Baakens River Valley, Port Elizabeth, *Brunnthaler*, Type.

Var. **repens** Steiner

Zahlbruckner (1926 b) 551.
as *Buellia proserpens* var. *repens* Steiner, Zahlbruckner, Cat. Lich. VII : 390.
on sandstone, Genadendal mountains, *Brunnthaler*.

Buellia protothallina (Krempelh.) Vain.

Zahlbruckner (1932) 272, Cat. Lich. VII : 391.
on sandstone rocks, Van Reenen's Pass, *Brunnthaler ;* near Genadendal, *Brunnthaler ;* on rocks, Ceres, Leslie (v. d. Byl 462, det. Vain.) ; on quartzite rocks, near Caledon, *Brunthaler*.

Var. **indissimilis** Vain.

Zahlbruckner, Cat. Lich. VII : 391.
Buellia indissimilis (Nyl.) B. de Lesd., van der Byl (1931) 16.
on stone, Sarnia, *Hean* (v. d. Byl 302, det. Vain.).

Buellia punctata Massal.

Zahlbruckner, Cat. Lich. VII : 392.
Lecidea myriocarpa Röhl., Stizenberger (1891) no. 1179.
Buellia myriocarpa deNot., van der Byl (1931) 6.
on branches, hills above Maritzburg, *Rehmann ;* near Lydenburg and Komatipoort, *Wilms ;* on trunk of **Pandanus variegata** Bot., Gard., Durban, *v. d. Byl 31* (det. A. L. Sm.).
on granite, Lions Head, *MacOwan.*

f. **marcidula** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 397.
Lecidea myriocarpa f. *marcidula* Nyl. apud Crombie (1876 a) 179 ; Stizenberger (1891) no. 1179 ; Hue (1891) 139.
on rocks, Table Mt., *Eaton.*

f. **punctiformis** Hazsl.

Zahlbruckner, Cat. Lich. VII : 398.
Buellia punctiformis (Hoffm.) Massal., van der Byl (1931) 16.
on stone, Stellenbosch, *v. d. Byl 251* (det. Vain.).
on bark of **Protea** sp., Stellenbosch, *v. d. Byl 345* (det. Vain.) ; on bark of **Eucalyptus** sp., *v. d. Byl 377* (det. Vain.).

Var. **aequata** (Ach.) Zahlbr.

Zahlbruckner (1932) 271, Cat. Lich. VII : 400.
Lecanora aequata (Ach.) Stizenberger (1890) no. 666.
on silicaceous rocks, Poole's Bay, *v. d. Byl 794 ;* on red rocks, near Lydenburg, *Wilms.*

Buellia pura Vain.

Vainio (1926) 12 ; Zahlbruckner Cat. Lich. VIII : 593.
on granite rock, Matopos, *v. d. Byl 163,* Type.

Buellia quaterna Zahlbr.

Zahlbruckner (1936) 177.
on granite, Springbok, Namaqualand, *v. d. Byl 1151,* Type ; Bitterfontein, *v. d. Byl 1185.*

Buellia rhodesiaca Zahlbr.

Zahlbruckner (1932) 270 ; van der Byl (1931) 6.
on stone, near Salisbury, *Eyles* (v. d. Byl 586) Type.

Buellia rudis (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 404.
Lecidea rudis Stizenberger (1891) 162, no. 1114.
on sandstone rocks, near Muizenberg, *MacOwan,* Type.

Buellia rusticorum (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 405.
Lecidea rusticorum Stizenberger (1891) 169, no. 1146.
on rocks, near Lydenburg, *Wilms,* Type.

Buellia Schinziana Müll. Arg.

J. Müller-Arg. (1888) 46 ; Zahlbruckner, Cat. Lich. VII : 410.
Lecidea Schinziana Stizenberger (1891) 175, no. 1173.
on quartzite rocks, at top of mountain, Nautilus Point, Angra Pequena, *Schinz,* Type.

Buellia spuria (Schaer.) Anzi

Zahlbruckner (1926 b) 552, (1932) 272, Cat. Lich. VII : 411 ; van der Byl (1931) 16.
Lecidea spuria Schaer., Crombie (1876 a) 178 ; Stizenberger (1891) 1125.
Buellia antarctica Massalongo (1861) 68.
Buellia antarctica var. *effusa* Massalongo (1861) 69.
on rocks, Table Mt., *Wawra*, *Eaton*, *MacOwan* ; Boschberg, *MacOwan* ; on sandstone, Genadendal, *Brunnthaler* ; on quartzite, Kloof Neck, *Brunnthaler* ; on silicaceous rocks, Hermanus, *v. d. Byl 790* ; on rock, Klapmuts, *v. d. Byl 101* (det. Merrill).

Var. **ferruginea** Vain.

Vainio (1901) 415 ; Zahlbruckner, Cat. Lich. VII : 412.
on sandstone rocks, top of mountain, Morro de Lopollo, *Welwitsch 53 pr. p.*, *54 pr. p.*

Var. **insularis** (Massal.) Jatta

Zahlbruckner (1932) 272, Cat. Lich. VII : 412.
Buellia antarctica var. *insularis* Massalongo (1861) 67.
Lecidea spuria var. *insularis* Stizenberger (1891) 165, no. 1125.
on rocks, top of Table Mt., *Wawra* ; on sandstone rocks, Poole's Bay, *v. d. Byl 798*.

Buellia stellulata (Tayl) Mudd.

Steiner (1897) 225 ; Vainio (1901) 414 ; Zahlbruckner (1926 b) 552, Cat. Lich. VII : 413.
Lecidea stellata Tayl., Nylander (1868) 516 ; Stizenberger (1891) 167, no. 1138; Hue (1891) 141.
Lecidea minutula Nyl., Crombie (1876 a) 179 ; Stizenberger (1891) no. 1139.
Buellia minutula Arn., ? van der Byl (1931) 16, as *B. minutula* Hepp.
on primitive rocks, Genadendal, *Brunnthaler* ; on stone, Stellenbosch, *v. d. Byl 348* (det. Vain.) ; Langbaan, *v. d. Byl 536* (det. Vain.) ; on hard rock, Cape, *MacOwan* ; Table Mt., *Eaton* ; on sandstone rock, near cataract, Ferrão da Sola, *Welwitsch 484 pr. p.*, *11 pr. p.* ; Morro de Lopollo, *Welwitsch 11* **b** *pr. p.*

f. **albosparsa** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 415.
Lecidea stellulata f. *albosparsa* Stizenberger (1891) 167, no. 1138.
on rocks, near Muizenberg, *MacOwan*.

f. **hybrida** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 415.
Lecidea stellulata f. *hybrida* Stizenberger (1891) 167, no. 1138.
on quartzite and sandstone rocks, Table Mt., *MacOwan*.

f. **murina** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 415.
Lecidea stellulata f. *murina* Stizenberger (1891) 167, no. 1138.
on rocks, near Muizenberg, *MacOwan*.

Buellia Stizenbergeri Zahlbr.

Zahlbruckner, Cat. Lich. VII : 415.
Lecidea dispersula Stizenberger (1891) 166, no. 1135.
on sandstone rocks, near Muizenberg, *MacOwan*, Type.

Buellia subalbula (Nyl.) Müll. Arg.

Vainio (1901) 414 ; Zahlbrucknér (1926 b) 552, Cat. Lich. VII : 416.
Lecidea subalbula Nylander (1868) 11 ; Stizenberger (1891) no. 1148 ; Hue (1891) 141.
on scattered calcareous rocks, at top of neck in Serra de Montes Negros, *Welwitsch 2 pr. p., 12, 15 pr. p.*, 51 pr. p.; on tableland between Caroca and Cazimba, *Welwitsch 52 ;* on quartzite, Haifischinseln off Lüderitzbucht, *Fincke.*

Buellia subcinerascens Zahlbr.

van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VII : 417.
on wood, Hopefield, *v. d. Byl 340* (det. Vain.).

Buellia subdisciformis Vain.

Vainio (1901) 413 ; Zahlbruckner, Cat. Lich. VII : 418.
Lecidea subdisciformis Leight., Stizenberger (1891) no. 1163.
on trunks of **Apodytes dimidiata** E. Mey., in high forest near Lopollo, *Welwitsch 9, 10 ;* on bark, near Lydenburg, *Wilms.*

Buellia subtristis (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 421.
Lecidea subtristis Nyl. apud Crombie (1876 a) 179, (1876 b) 21 ; Hue (1891) 140.
on quartzite rocks, Table Mt., *Eaton*, Type.

Buellia transvaalica (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 424.
Lecidea transvaalica Stizenberger (1891) 168, no. 1144.
on hard rock, near Lydenburg, *Wilms*, Type.

Buellia triplicans Zahlbr.

Zahlbruckner (1932) 271.
on granite rocks, slopes of Table Mt., opposite Camps Bay, *Brunnthaler*, Type.

Buellia vernicoma Tuckerm.

Zahlbruckner, Cat. Lich. VII : 456.
Buellia myriocarpella (Nyl.) Oliv., van der Byl (1931) 16, as *B. myriocapsella* (Nyl.) Vain.
on stone, Stellenbosch, *v. d. Byl 351* (det. Vain.).

Buellia verruculosa Mudd.

Zahlbruckner, Cat. Lich. VII : 427.
Lecidea ocellata Floerke, Stizenberger (1891) no. 1145.
Buellia rinodinea Massalongo (1861) 63 ; Vainio (1901) 414.
Lecanora microps Stizenberger (1890) 209, no. 645.
Rinodina microphthalma Massalongo (1861) 61.
on basalt rocks, Table Mt., *Wawra ;* on sandstone rocks, top of mountain, Morro de Lopollo, *Welwitsch 53 pr. p., 54 pr. p.*

Buellia viridiatra Zahlbr.

Zahlbruckner, Cat. Lich. VII : 430.
Lecidea viridiatra Stizenberger (1891) 172, no. 1162.
on sandstone rocks, near Muizenberg, *MacOwan*, Type.

Rinodina albocincta Zahlbr.

Zahlbruckner (1936) 178.
on bark, Knysna, *v. d. Byl*, Type.

Rinodina bicolor Zahlbr.

Zahlbruckner (1932) 272.
on silicaceous rocks, Mbabane, *Lebzelter*, Type.

Rinodina capensis Hampe

Massalongo (1861) 87 ; Zahlbruckner (1926 c) Pl. 3, f. 10-18, Cat. Lich. VII: 496.
on branches of trees, Cape, *Wawra*.

Rinodina confragulosa Müll. Arg.

J. Müller-Arg. (1887) 79 ; Zahlbruckner, Cat. Lich. VII : 503.
Lecanora confragulosa Nyl. apud Crombie (1876 a) 172 ; Stizenberger (1890) no. 664 ; Hue (1891) 57.
on sandstone rocks, Table Mt., *Eaton*, Type.

Rinodina conspersa Müll. Arg.

J. Müller-Arg. (1893 b) 298 ; Schinz (1905) 395 ; Zahlbruckner, Cat. Lich. VII : 505.
Lecanora conspersa Stizenberger (1895) 236, no. 660*bis*.
on stones, near Boroma, *Menyharth 1214*.

Rinodina deminutula (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 508.
Lecanora deminutula Stizenberger (1890) 210, no. 658.
on rocks, Lions Head, *MacOwan*, Type.

Rinodina detecta (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 510.
Lecanora detecta Stizenberger (1890) 213, no. 672.
on granite, in Transvaal mountains, *Wilms*, Type.

Rinodina exigua (Ach.) S. F. Gray.

Zahlbruckner, Cat. Lich. VII : 514.
Lecanora exigua Röhl., Stizenberger (1890) no. 650.
on bark, near Lydenburg, *Wilms*.

Rinodina ficta (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 518.
Lecanora ficta Stizenberger (1890) 210, no. 652.
on bark of a tree of the family Malvaceae, near Durban, *Wilms*.

Rinodina Hüfferiana Müll. Arg.

J. Müller-Arg. (1880 b) 18, (1890) 346 ; Zahlbruckner, Cat. Lich. VII : 521.
Lecanora Hüfferiana Stizenberger (1890) 212, no. 665
Rinodina sophodes var. *Ledienii* Stein (1888) 141
on bark, near Lydenburg, *Wilms*.

Rinodina huillensis Vain.

Vainio (1901) 413 ; Zahlbruckner, Cat. Lich. VII : 521.
Lecanora sophodes Nylander (1886) 514, non Ach.
on rocks near cataract, Ferrao de Lopollo, *Welwitsch 46 pr. p., 50.*

Rinodina microlepida Müll. Arg.

J. Müller-Arg. (1888) 206 ; Zahlbruckner, Cat. Lich. VII : 528.
Lecanora microlepida Stizenberger (1890) 209, no. 646.
on non-calcareous rocks, near Lydenburg, *Wilms*, Type.

Rinodina oreina Mass.

Zahlbruckner, Cat. Lich. VII : 562.
Lecanora oreina Ach., Drège (1843) 86.
on rocks, Paarlberg, *Drège.*

Rinodina roboris Arn.

Zahlbruckner, Cat. Lich. VII : 547.
Lecanora roboris Nylander (1869 a) 7 ; Stizenberger (1890) no. 653.
Lecanora sophodes var. *roboris* Duf., Nylander (1869 a) 7.
on bark, Natal, *Armstrong.*

Rinodina sophodes Massal.

Zahlbruckner, Cat. Lich. VII : 549.
Lecanora sophodes Ach., Drège (1843) 85 ; Stizenberger (1890) nol 657.
on bark and wood, near Lydenburg, *Wilms ;* Paarlberg, *Drège.*

Var. **atroalbida** (Nyl.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 552.
Lecanora sophodes var. *atroalbida* Nylander (1869 a) 7 ; Stizenberger (1890) no. 647 ; Hue (1891) 56.
on rocks, Durban, *Armstrong ;* Transvaal, *Wilms.*

Rinodina teichophiloides (Stizenb.) Zahlbr.

Zahlbruckner, Cat. Lich. VII : 557.
Lecanora teichophiloides Stizenberger (1890) 212, no. 669.
on quartzite rocks, near Muizenberg, *MacOwan*, Type.

PHYSCIACEAE.

Anaptychia corallophora (Tyl.) Wain.

Zahlbruckner (1932) 275 (as *Physcia corallophora* (Tayl.) Wain) Cat. Lich. VII : 718.
on bark, Grootrivier, Knysna, *v. d. Byl 899.*

Anaptychia granulifera Massal.

Wainio (1901) 409, (1915) 63 ; Zahlbruckner, Cat. Lich. VII : 724.
Physcia hypoleuca var. *granulifera* Hue (1890) 317 ; Stizenberger (1890) no. 430.
Physcia speciosa var. *granulifera* Tuck., Stirton (1877) 215.
South Africa, without locality

Anaptychia hypoleuca Massal.

Zahlbruckner, Cat. Lich. VII : 725.
Physcia hypoleuca Tuckerm., Stizenberger (1890) 179, no. 430.
Physcia speciosa var. *hypoleuca* Nylander (1860 a) 417 ; Stirton (1877) 215.
on bark, Boschberg, *MacOwan* (S.A.M. 46961).

Var. **colorata** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 726.
Pseudophyscia hypoleuca var. *colorata* Zahlbr., Steiner (1907) 641.
on bark, Mt. Mamotsuiri, *Junod 985 pr. p.*

Anaptychia leucomelaena (Linn.) Wain.

J. Müller-Arg. (1893 a) 510 ; Zahlbruckner, Cat. Lich. VII : 730.
Borrera leucomela Ach., Drège (1843) 133, 146.
Physcia leucomela Michx., Nylander (1860 a) 414, (1869 a) 6 ; Stirton (1877) 215; Stizenberger (1890) no. 425, (1895) no. 425.
Anaptychia leucomela Massalongo (1861) 48 ; van der Byl (1931) 16.
on tree trunks and branches, Boschberg, *MacOwan*, 126 ; Cape, *Wawra ;* Pondoland, *Bachmann ;* Rhodesia, *Eyles 834* (v. d. Byl 559) ; on **Acacia Karroo** Hayne, Kentani, *Pegler 1233* (S.A.M. 46954) 128 ; Natal, *Armstrong ;* Mazoe, *Eyles 471* (S.A.M. 26313) ; in a damp place in the forest, between ' Gekau ' and ' Basche ', *Drège ;* Enon, *Drège ;* on mossy ground in Cave Mt., Graaff Reinet, *McLea.*

Var. **angustifolia** (Mey. & Flot.) Müll. Arg.

Zahlbruckner, (1932) 275, Cat. Lich. VII : 730.
Physcia leucomela var. *angustifolia* Nylander (1860 a) 415 ; Crombie (1876 a) 170 ; Stizenberger (1890) no. 425.
on bark, van Reenen's Pass, *Brunnthaler ;* on rind of **Portulacaria afra** Jacq. Uitenhage, *Brunnthaler.*
amongst mosses on the ground, Table Mt., *Eaton.*

Var. **multifida** f. **squarrosa** Wain.

Wainio (1901) 408.
on branches of trees, top of neck in mountains, Serra da Xella, *Welwitsch 34.*

Anaptychia obesa Zahlbr. f. **caesiocrocata** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 734.
Physcia obesa Pers. f. *caesiocrocata* Nylander (1860 a) 418.
Physcia obesa f. *tenuior* Stizenberger (1890) no. 432.
Cape of Good Hope.

Anaptychia palpebrata Wain.

Zahlbruckner, Cat. Lich. VII : 734.
Physcia leucomela var. *subcomosa* Nyl., Stizenberger (1890) no. 425.
on bark, near Lydenburg, *Wilms.*

Anaptychia podocarpa Massal.

Zahlbruckner, Cat. Lich. VII : 736.
Physcia podocarpa Nyl., Stizenberger (1890 & 1895) no. 426.
on bark, Cape, *Zeyher ;* Natal.

Anaptychia speciosa (Wulf) Massal.

Zahlbruckner, Cat. Lich. VII : 737 ; van der Byl (1931) 16.
Physcia speciosa Nylander (1860 a) 416, (1869 a) 7 ; Stirton (1877) 215 ; Stizenberger (1890) no. 429.
Parmelia speciosa Ach., von Flotow (1843) 27 ; Drège (1843) 155 ; Krauss (1846) 201.
Squamaria speciosa Frege, Massalongo (1861) 54.
amongst mosses, mixed with *Parmelia* sp., Cape, *Wawra ;* Natal, *Armstrong ;* near Constantia, *Krauss ;* between ' Omtendo ' and ' Omsamculo ', *Drège ;* on trunk of **Roystonea regia** O. F. Cook, Berea, Durban, *v. d. Byl 23, 24* (det. A. L. Sm.) ; Boschberg, *MacOwan* (S.A.M. 46960) ; on rock, Makoni, *Eyles 834.*

f. **sorediosa** Zahlbr.

Zahlbruckner, Cat. Lich. VII : 741.
Pseudophyscia speciosa f. *sorediosa* Müll. Arg. Steiner (1907) 741.
on bark, Mt. Mamotsuiri, *Junod 985 pr. p.*

Var. **esorediata** Wain.

Wainio (1901) 409 ; van der Byl (1931) 16.
on trunks of trees, in high forest, Morro de Lopollo, *Welwitsch 35 pr. p., 39 ;* on branches of **Royena** sp., Howick, *v. d. Byl 208* (det. Vain.).

Var. **lobulifera** Vain.

Wainio (1901) 409 ; Zahlbruckner, Cat. Lich. VII : 742.
on trunks of **Parinarium** sp., in high forest on mountain, Morro de Lopollo, *Welwitsch 35 pr. p.*

Physcia adglutinata Nyl.

Nylander (1860 a) 428 ; Stizenberger (1890) no. 452' ; J. Müller-Arg. (1893 b) 296 ; Schinz (1905) 393 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VII : 585.
on bark, near Lydenburg, *Wilms ;* near Boroma, *Menyharth 428 ;* on tree trunk, Howick, *v. d. Byl 217 pr. p.* (det. Vain.) ; without locality, *Pappe 8* (S.A.M. 46867).

Var. **pyrithrocardia** Müll. Arg.

J. Müller-Arg. (1880 b) 278, (1893 b) 296 ; Stizenberger (1895) no. 458 ; Schinz (1905) 393 ; Zahlbruckner, Cat. Lich. VII : 588.
on bark, near Boroma, *Menyharth 264 pr. p.*

Physcia adscendens (Fr.) Oliv.

Zahlbruckner (1932) 274, Cat. Lich. VII : 588.
on branches, Stellenbosch, *B. Slabbert* (v. d. Byl 706).

Physcia aegiliata (Ach.) Nyl.

Stizenberger (1890 & 1895) no. 468 ; Hue (1890) 322 ; J. Müller-Arg. (1993 b) 296 ; Steiner (1897) 216 ; Zahlbruckner, Cat. Lich. VII : 580.
Physcia confluens Nylander (1860 a) 430.
on bark of trees, South Africa, *Breutel ;* near Boroma, *Menyharth 251, 252, 257 ;* Transvaal.

Physcia affixa Nyl.

Crombie (1876 a) 170, (1876 b) 19 ; Hue (1890) 321 ; Stizenberger (1890) no. 461 ; Zahlbruckner, Cat. Lich. VII : 589.
on rocks, Table Mt., *Eaton*, Type.

Physcia africana Müll. Arg.

J. Müller-Arg. (1880 a) 33 ; Stizenberger (1890) no. 465 ; Zahlbruckner, Cat. Lich. VII : 580.

on stones, near Lydenburg, *Wilms.*

Physcia aipolia Hampe.

Stizenberger (1890) no. 444 ; Zahlbruckner, Cat. Lich. VII : 590.

on bark, Cape, *Drège ;* Transvaal, *Wilms.*

Var. **acrita** Hue.

Zahlbruckner, Cat. Lich. VII : 593.

Physcia stellaris var. *aipolia* f. *acrita* Nyl., J. Müller-Arg. (1893 b) 296 ; Schinz (1905) 394.

on bark, near Boroma, *Menyharth 252, 265, 270.*

Var. **alnophila** Wain.

van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VII : 594.

on trunk of **Acacia saligna** Wendl., Hopefield, *v. d. Byl 147.*

Physcia applanata Zahlbr.

Zahlbruckner, Cat. Lich. VII : 581.

Physcia picta var. *sorediata* Müll. Arg., J. Müller-Arg. (1893 b) 296, (1879) 272, (1880) 33 ; Stizenberger (1890) no. 464 ; Schinz (1905) 580.

on bark, near Boroma, *Menyharth 263, 267 ;* Transvaal, *Wilms.*

Physcia caesia (Hoffm.) Hampe.

Stirton (1877) 215 ; Stizenberger (1890) no. 448 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VII : 600.

Parmelia caesia Ach., Drège (1843) 141.

on stones, South Africa, without locality ; on concrete of gutter, Berea, Durban, *v. d. Byl 42* (det. A. L. Sm.) ; ' Glenfilling ', *Drège.*

Physcia Clementiana Kickx.

Zahlbruckner, Cat. Lich. VII : 607.

Physcia astroidea Nyl., Stizenberger (1890) no. 446.

on bark, Cape, *Zeyher.*

Physcia crispa (Pers.) Nyl.

Stizenberger (1890) no. 438 ; Zahlbruckner, Cat. Lich. VII : 611.

on bark, Lions Head, *MacOwan.*

f. **melanophthalma** Wain.

Wainio (1915) 67 ; Zahlbruckner (1932) 274, Cat. Lich. VII : 612.

on bark of **Quercus** sp., Genadendal, *Brunnthaler ;* on branches, Victoria Falls, *Brunnthaler.*

Physcia dilatata Nyl.

Stizenberger (1890) no. 439 ; van der Byl (1931) 16 ; Zahlbruckner, Cat. Lich. VII : 613.

on bark, Table Mt., *MacOwan ;* on trunk of **Acacia mollissima** Willd., Howick, *v. d. Byl 197* (det. Vain.).

Physcia dimidiata Nyl.

Stizenberger (1890) no. 443 ; Zahlbruckner, Cat. Lich. VII : 612.
on bark of pomiferous trees, near Lydenburg, *Wilms*.

Physcia endochrysea Hampe.

Stizenberger (1890) no. 453 ; Zahlbruckner, Cat. Lich. VII : 614.
on bark, Table Mt., *MacOwan*.

Physcia endococcina (Körb.) Nyl.

Stizenberger (1890) no. 454 ; Zahlbruckner, Cat. Lich. VII : 615.
on rocks, Cape, *MacOwan*.

Physcia erythrocardia Wain.

Zahlbruckner, Cat. Lich. VII : 581 ; van der Byl (1931) 17.
Physcia picta var. *erythrocardia* Tuck., Stizenberger (1890) 184, no. 464.
Physcia picta f. *erythrocardia* Stizenberger (1985) no. 464.
on branches, near Lydenburg, *Wilms ;* on trunk of **Fluggea virosa** Baill., Woodbush, *v. d. Byl 478* det. Vain.).

Physcia hispida (Schreb.) Frege

Zahlbruckner, Cat. Lich. VII : 626.
Physcia tenella DC., van der Byl (1931) 17.
on branches of **Quercus** sp., Ceres, *Leslie* (v. d. Byl 447, det. Vain.).

Physcia integrata Nyl.

Stizenberger (1890) no. 440 ; van der Byl (1931) 17 ; Zahlbruckner, Cat. Lich. VII : 636.
on bark, Transvaal, *Wilms ;* on **Populus** sp., Klapmuts, *v. d. Byl 91 ;* on **Roystonea regia** O. F. Cook, Durban, *v. d. Byl 121* (det. Merl.).

Var. **obsessa** Wain.

van der Byl (1931) 17 ; Zahlbruckner, Cat. Lich. VII : 636.
on tree trunk, Woodbush, *v. d. Byl 497* (det. Vain.) *510, 518*.

Physcia melanocarpoides Vain.

van der Byl (1931) 17, ? nom. nud.
on granite rock, Matopos, *v. d. Byl 160* (det. Vain.).

Physcia obscura Hampe.

Stizenberger (1890) no. 450 ; Zahlbruckner, Cat. Lich. VII : 653.
Parmelia obscura Fr., Drège (1843) 132, 159.
on bark and rocks, Samteesvlakte, *Drège ;* in bush, " auf der Höhe Omblas ", *Drège*.

Var. **chloantha** Rabenh.

Stizenberger (1890) no. 450 ; Zahlbruckner, Cat. Lich. VII : 657.
on bark, Durban, *Wilms*.

Var. **glaucovirens** Zahlbr.

Zahlbruckner (1932) 274.
on trunks of trees, Knoetze, Knysna, *v. d. Byl 656*, Type.

Physcia ochroleuca Müll. Arg.

J. Müller-Arg. (1893 b) 296 ; Stizenberger (1895) no. 463 *bis* ; Schinz (1905) 394; Zahlbruckner, Cat. Lich. VII : 667.

on bark, near Boroma, *Menyharth 256*.

Physcia picta (Sw.) Nyl.

Stizenberger (1890) no. 464 : J. Müller-Arg. (1893 b) 286 ; van der Byl (1931) 17 ; Zahlbruckner, Cat. Lich. VII : 582.

? Parmelia formosa Fée var. *latifolia* von Flotow (1843) 27 ; Krauss (1846) 201.

on bark of trees, Table Mt. *Wilms, Krauss* ; near Lydenburg, *Wilms* ; near Boroma, *Menyharth 466, 468* ; East London, Pegler (S.A.M. 46942) ; on trunk of **Grevillia robusta** Cunn., Bot. Gard., Durban, *v. d. Byl 28* (det. A, L. Sm.) : on trunk of **Roystonea regia** O. F. Cook, Durban, *v. d. Byl 25* (det. A. L. Sm.) ; on trunk of **Trichilia emetica** Vahl, Berea, Durban, *v. d. Byl 43* (det. A. L. Sm.).

f. **isidiifera** Nyl.

Zahlbruckner, Cat. Lich. VII : 584 ; (?) van der Byl (1931) 17, as f. *isidiosa*.

on trunk of **Trichilia emetica** Vahl., Berea, Durban, *v. d. Byl 2* (det. A. L. Sm.).

Physcia pulverulenta (Schreb.) Hampe

Stizenberger (1890) no. 433 ; van der Byl (1931) 17 ; Zahlbruckner, Cat. Lich. VII : 668.

on bark, Transvaal, *Wilms* ; on **Acacia Karroo** Hayne, Kentani, *Pegler 1228*, 129 ; on trunk of **Bauhinia variegata** Linn., Bot. Gard., Durban, *v. d. Byl 75* (det. A. L. Sm.).

Physcia setosa (Ach.) Nyl.

Nylander (1869 a) 7 : Crombie (1876 a) 170 ; Stizenberger (1890) no. 462 ; Zahlbruckner (1932) 274, Cat. Lich. VII : 679.

on rocks, ground and bark, Transvaal, *Rehmann, Wilms* ; Durban, *Armstrong* ; Boschberg, *MacOwan* ; on rocks Table Mt., *Eaton* ; on bark, World's View, van Reenen's Pass, *Brunnthaler*.

f. **deminuta** Cromb.

Crombie (1876 a) 170 ; Stizenberger (1890) no. 462 ; Zahlbruckner, Cat. Lich VII : 680.

on rocks, Table Mt., *Eaton*.

f. **virella** B. de Lesd.

Zahlbruckner, (1932) 274, Cat. Lich. VII : 681.

on trunks of trees, Piquietberg, *du Plessis* (v. d. Byl 1036).

Physcia stellaris (Linn.) Nyl.

Nylander (1860 a) 424 ; van der Byl (1931) 17 ; Zahlbruckner, Cat. Lich. VII : 681.

Parmelia stellaris Ach., Drège (1843) 132, 124, 138.

on branch of **Punica granatum** Linn., Hopefield, *v. d. Byl 394* (det. Vain.) : on trees and rocks, Samteesvlakte, *Drège* ; near Klein and Groot Vischrivier, *Drège* ; Hoffmanskloof, *Drège* ; without locality, *Pappe 15* (S.A.M. 46872).

Physcia subpicta Nyl.

Crombie (1876 a) 171, (1876 b) 19 : Hue (1890) 322 ; Stizenberger (1890) no. 467 ; Zahlbruckner, Cat. Lich. VII : 584.

on rock , Table Mt., *Eaton*, Type.

Physcia syncolla Nyl.

van der Byl (1931) 17 ; Zahlbruckner, Cat. Lich. VII : 691.

on trunk of **Bauhinia variegata** Linn., Bot. Gard., Durban, *v. d. Byl 74* (det. A. L. Sm.) ; on **Euphorbia** sp., Bot. Gard., Durban, *v. d. Byl 11* (det. A. L. Sm.) ; on stem of shrub Robertson, *Bruwer* (v. d. Byl 411, det. Vain.).

Physcia tribacoides Nyl.

Stizenberger (1890) no. 452 ; Zahlbruckner, Cat. Lich. VII: 696.

on sandstone rocks, on slopes of Lion's Head, *MacOwan.*

Physcia venustula Stizenb.

Stizenberger (1890) 181, no. 449 ; Zahlbruckner, Cat. Lich. VII : 700.

on bark of trees, near Durban, *Wilms.*

fide Stizenberger (1893) no. 449, " est *Physcia speciosa* var. *dactyliza* Nyl. ", a synonym for *Anaptychia dactyliza* Zahlbruckner, Cat.Lich. VII : 718.

Physcia zuluensis Vain.

van der Byl (1931) 17 ? nom. nud.

Zululand, *Harris* (v. d. Byl 231 pr. p., det. Vain.).

Pyxine Cocoës (Sw.) Nyl.

Nylander (1869 a) 7 ; Stizenberger (1890) no. 470 ; van der Byl (1931) 17 ; Zahlbruckner, Cat. Lich. VII : 569.

on bark, Cape, *Drège ;* Natal, *Armstrong ;* Transvaal, *Wilms ;* on trunk of **Citrus** sp., Durban, *v. d. Byl 1* (det. A. L. Sm.); on **Euphorbia** sp., Bot. Gard. Durban, *v. d. Byl 9,* (det. A. L. Sm.) ; on **Commiphora caryaefolia** Oliv. Berea, Durban, *v. d. Byl 41* (det. A. L. Sm.) ; on **Erythrina tomentosa** R. Br., Marandellas, *Eyles 3957* (v. d. Byl 553, det. Vain.).

on concrete of gutter, Berea, Durban, *v. d. Byl 44* (det. A. L. Sm.).

Pyxine endoleuca (Müll. Arg.) Vain.

Zahlbruckner (1932) 273, Cat. Lich. VII : 572.

Pyxine Meissneri var. *endoleuca* Müll. Arg., Stizenberger (1890) no. 469 ; J. Müller-Arg. (1893 b) 297 ; Schinz (1905) 394 ; van der Byl (1931) 17.

on bark, Salisbury, *Eyles* (v. d. Byl 1000) ; near Boroma, *Menyharth.*

on rocks, near Lydenburg, *Wilms.*

Pyxine Eschweileri Wain.

van der Byl (1931) 17 ; Zahlbruckner, Cat. Lich. VII : 572.

on **Roystonea regia** O. F. Cook, Durban, *v. d. Byl 122* (det. Merrill.).

Pyxine Meissneri Tuckerm.

Nylander (1869 a) 7 ; Stizenberger (1890) no. 469 ; van der Byl (1931) 17 ; Zahlbruckner (1932) 273, Cat. Lich. VII : 572.

on bark of tree, Durban, *Armstrong ;* near Salisbury, *v. d. Byl ;* on trunk of **Acrocomia sclerocarpa** Mart., Bot. Gard., Durban, *v. d. Byl 20* (det. A. L. Sm.) ; on **Euphorbia** sp., Bot. Gard. Durban, *v. d. Byl 34* (det. A. L. Sm.) ; on **Roystonea regia** O. F. Cook, Durban, *v. d. Byl 27* (cet. A. L. Sm.).

Var. **sorediosa** Müll. Arg.

J. Müller-Arg. (1879) 290, (1893 b) 297, (1894) 262 ; Stizenberger (1895) no. 469 ; Schinz (1905) 394.

on bark, near Boroma, *Menyharth 265, 447.*

Var. **subobscurans** Malme.

Wainio (1901) 412 ; Zahlbruckner, Cat. Lich. VII : 573.
on living trunks of **Apodytes dimidiata** E. Mey., in high forest near Lopollo, *Welwitsch 8 pr.p.*

Pyxine petricola Nyl.

Zahlbruckner, Cat. Lich. VII : 574.
on granite rock, Matopos, *v. d. Byl 161* (det. Vain.).

Pyxine rhodesiaca Vain.

Lynge (1937) 90.
on **Ficus** sp., Salisbury, *Eyles 3953* (v. d. Byl 549, Type).

LICHENES IMPERFECTAE.

Lepraria alba Ach.

Juel (1918) 49 ; Zahlbruckner, Cat. Lich. VII : 751.
Lichen albus Roth., Thunberg (1800) 175, (1823) 741.
Lepra lactea DC., Drège (1843) 80.
on rocks, top of Table Mt., *Thunberg ;* du Toits Kloof, *Drège.*

Lepraria candelaris Fr.

Zahlbruckner, Cat. Lich. VII : 757.
Lepraria flava Ach., Drège (1843) 80, 134.
du Toits Kloof, *Drège ;* Hoffmanskloof, *Drège.*

Lepraria citrina Schaer.

Zahlbruckner, Cat. Lich. VII : 671.
Lepra citrina Schaer., J. Müller-Arg. (1983 b) 299 ; Schinz (1905) 396.
near Boroma, *Menyharth 264.*

Lepraria glaucella Ach.

Zahlbruckner, Cat. Lich. VII : 762.
Lepra sulphurea Ehrht., Drège (1843) 763.
' Glenfilling ', *Drège.*

Lepraria xanthina Vain.

Vainio (1929) 38 ; Zahlbruckner, Cat. Lich. VII : 770.
Moçambique (Vainio).

BASIDIOMYCETES

HEMIBASIDII.

Ustilaginales.

USTILAGINACEAE.

Cintractia axicola (Berk.) Cornu

Hopkins (1938 a) 109, (1939 a) 19.
on **Fimbristylis exilis** R. & S., in inflorescence, Odzi (Rh. 1421) Kew.

Cintractia capensis (Reess) Ciferri

Ciferri (1931) 72 ; Zundel (1938) 316.
Ustilago capensis Reess (1875) 70, 72 ; Buchenau (1875) 486, T. xi, f. 3, 4 ; Sacc. Syll. Fung. VII : 478 ; Verwoerd (1926 b) 30.
on **Juncus capensis** Thunb., in ovaries, in mountains near Cape Town, *Buchenau*, Kew
Juncus lomatophyllus Spreng., in ovaries, in mountains near Cape Town. Buchenau Kew.

Cintractia Crus-galli (Tracy & Earle) Magn.

on **Echinochloa Colona** Link., Onderstepoort, *Mogg*, 27381.

Cintractia leucoderma P. Henn.

P. Hennings (1903) 156 ; Verwoerd (1926 b) 30 ; Zundel (1938) 316.
on **Rynchospora aurea** Vahl., in inflorescence, Cubango, *Baum 346*, Kew.
Rynchospora dolichostyla K. Schum., Kueio, *Baum 356*, Kew.

Cintractia Melinis Zundel

Zundel (1938) 302.
on **Melinis tenuinervis** Stapf, Cape Town, *Mally*, 19860 ; Rosebank, *Mally*, 18179.

Cintractia piluliformis (Berk.) P. Henn.

P. Hennings (1898) 293 ; Sacc. Syll. Fung. XVI : 373 ; Verwoerd (1926 b) Zundel (1938) 316.
Uredo pilulaeformis Berkeley (1843 b) 523 ; Zundel (1938) 315.
Ustilago piluliformis Tulasne (1847) 93 ; Sacc. Syll. Fung. VII : 458 ; Zundel (1938) 315.
on **Juncus capensis** Linn., in ovaries, Clanwilliam, *Schlechter*.
Juncus sp., Uitenhage, *Zeyher 89*.

Cintractia togoensis P. Henn

Verwoerd (1926 b) 24.
on **Cyperus** sp., in inflorescence, Durban, *v. d. Byl 247*.

Farysia olivacea (DC.) Syd.

Verwoerd (1926 b) 13 ; Zundel (1938) 294 ; Nel (1942) 58.
Cintractia caricicola P. Hennings (1895 b) 325 ; Sacc. Syll. Fung. XIV : 421.
on **Carex aethiopica** Schkuhr, Knysna, *Duthie* (Stell. 270, v. d. Byl. 2316).
Carex clavata Thunb., Deepwalls, *J. Phillips*, 20652.

Carex phacota Spreng., Kentani, *Pegler 1972*, 8812, Kew.
Carex spicato-paniculata C.B.Cl., Marieps Kop, *Van Son*, 26594.
Carex sp. (*Carex sphathea* Thunb., nom. nud., fide Hennings) Transvaal, *Schlechter*.

Melanopsichium austro-americanum (Speg.) G. Beck.

Zundel (1938) 302.

on **Polygonum lapathifolium** Linn., var. **glabrum** Burtt Davy, Maritzburg, *J. M. Sim*, 9045, *Mitchell*, 20435; Bon Accord, *le Roux*, 22553, *Doidge*, 25433.

Sorosporium africanum Syd.

H. & P. Sydow (1909) 544; Sacc. Syll. Fung. XXI: 512; Zundel (1938) 318.

on **Urochloa trichopus** Stapf, Umbelusi, *Howard*, 631; Arcadia, Pretoria, *Bottomley & Louwrens*, 28594.

Sorosporium afrum Syd.

H. Sydow (1935) 232; Zundel (1938) 306; Hopkins (1939 a) 47.
as *Sorosporium* sp., Doidge & Bottomley (1931) 60.

on **Panicum laevifolium** Hack., Randfontein, *Allpars*, 6579; Roberts Heights, *Pole Evans*, 8929; Krugersdorp, *Pole Evans*, 8932; Onderstepoort, *Meeser*, 29902, 21109; Prinshof *Pentz*, 23097; Johannesburg, 603, 604, 608, and *Bottomley*, 26698, *Talbot*, 34562; Boschfontein, Warmbaths, *Doidge*, 20335; Ermelo, *Henrici*, 21086; Marikana, *Pallister*, 27376; Entabene, *Obermeyer*, 26379; Mooi River, *Mogg*, 11706; Roodekop, O.F.S., *Mogg*, 26384; Impendhle, *Biggs*, 28266; Bethlehem, *Goossens*, 26162; Strubens Valley, Roodepoort, *Schaefer*, 33764.
Urochloa bulbodes Stapf, Nyamandhlovu, *Hopkins*.

Sorosporium austro-africanum Zundel

Zundel (1930) 147, (1938) 305.

on **Hyparrhenia Tamba** Anderss., Tugela River, near Bergville, *Doidge*, 14168.

Sorosporium Brachiariae Hopkins

Hopkins (1938 a) 109.

on **Brachiaria brizantha** Stapf., Salisbury (Rh. 1860) 30370, Type.

Sorosporium Cenchri (Bref.) Zundel

Zundel (1938) 303.
as *Sorosporium* sp., Doidge & Bottomley (1931) 14.

on **Cenchrus ciliaris** Linn., Great Karasberg (Percy Sladen Exped.) *Pearson*, 8893; Cape Town, *Pearson*, 11718; Brown's Kuil Drift, *Mogg*, 20687; Agen, *Mogg*, 20688.

Sorosporium Clintonii Zundel

Zundel (1930) 153, (1938) 306.

on **Hyparrhenia dissoluta** (Nees) Hubb., Waterkloof, *Pole Evans*, 9693, Type; Wonderboom, *C. A. Smith*, 22435.
Hyparrhenia Tamba Anderss., Schagen, *Liebenberg*, 33061.

Sorosporium consanguineum Ell. & Everh.

Zundel (1938) 303, (1943) 167.

on **Aristida junciformis** Trin. & Rupr., Maritzburg, *Doidge*, 1592; Tweedie, *Pole Evans*, 9763.
Aristida sp., Cathkin Peak, *Meebold*, 27341.
Loudetia simplex (Nees) Hubb., Meintjes Kop, *Mogg*, 25314.

Sorosporium cryptum McAlp.

Zundel (1938) 306.

on **Urochloa trichopus** Stapf, Roodekop, *Pole Evans*, 14676 ; Rooikop, 18186 ; Pienaars River, *Burtt Davy*, 26161.

Sorosporium Everhartii Ell. & Gall.

Zundel (1938) 304.

on **Hyparrhenia dissoluta** (Nees) Hubb., Barberton, *Mogg*, 7770.

Sorosporium filiferum (W. Busse) Zundel

Zundel (1938) 308.

on **Sorghum caffrorum** Beauv., without locality, *Zundel*.

Sorosporium Flanaganianum Zundel

Zundel (1930) 155, (1938) 309.

on ? **Andropogoneae** undet., Prospect, *Flanagan*, 9423 ; Emmasdale, Heidelberg, 713, Type ; Randfontein, *Fell*, 11719.

Sorosporium harrismithense Zundel

Zundel (1930) 154, (1938) 309.

on **Panicum laevifolium** Hack., Harrismith, *v. d. Merwe*, 1473, Type.

Sorosporium Healdii Zundel

Zundel (1930) 147, (1938) 305.

on **Hyparrhenia** sp., Pretoria, *Pole Evans*, 9732, Type ; Pretoria, 20303.

Sorosperium Holstii P. Henn.

Verwoerd (1926 b) 26, (1931 a) 299 ; Zundel (1930) 147, (1938) 303 ; Doidge Bottomley (1931) 55.

on **Themedra triandra** Forsk., Sandflats, Alexandria, *Burtt Davy*, 5153 ; Rietfontein, *Pole Evans*, 9315 ; Armoedsvlakte, *Mogg*, 20693 ; Bloemfontein, *Verwoerd*.

Cymbopogon elegans Spreng., Nyasaland.

Sorosporium Hotsonii Zundel.

Zundel (1930) 152, (1938) 306.

on **Paniceae** undet. (possibly *Echinochloa* sp. or *Panicum* sp.) Hopefield, Lawley, 704. (This is the type collection, and the host is not *Andropogon* sp.).

Sorosporium inconspicuum (Pole Evans) Zundel

Zundel (1938) 304.

Ustilago inconspicua Pole Evans in Herb.

on **Digitaria argyrograpta** Stapf, Bloemfontein, *Potts*, 11299.

Digitaria Pentzii Stent, Botha's Hill, Grahamstown, *Dyer*, 23483 ; Edendale, Pretoria District, *Mogg*, 22843.

Digitaria monodactyla Stapf, Groenkloof, *Pole Evans*, 9416, Type, 9433, 11875 ; Pretoria, *Pole Evans*, 10716 ; Estcourt, *West*, 30517.

Digitaria sp., Tshakoma, *Obermeyer*, 26861.

Sorosporium Panici MacKinnon

Zundel (1938) 307 ; Hopkins (1943) 187.

as *Sorosporium cryptum* in Nel (1942) 58.

on **Panicum maximum** Jacq., Salisbury, *Eyles* (v. d. Byl 1811) 1400, *Hopkins* (Rh. 4809); Warmbaths, *Burtt Davy*, 20.

Sorosporium pretoriaense Zundel

Zundel (1930) 146, (1938) 303.

on **Cymbopogon plurinodis** Stapf, between Ashbury and Irene, *Pole Evans*, 10045, Type; Armoedsvlakte, *Mogg*, 25987.

Sorosporium proliferatum Zundel

Zundel (1930) 150, (1938) 307.

on **Hyparrhenia auctus** (Stapf) Stent, Waterval Boven, *Pole Evans*, 11336, Type.

Sorosporium pseudomaranguense Zundel

Zundel (1938) 309.

on **Andropogoneae** undet., Mooi River, *Mogg*, 10062, 10073, Type.

Sorosporium Reilianum (Kuhn) McAlp.

Verwoerd (1926 b) 24; Doidge & Bottomley (1931) 37; Zundel (1930) 151, (1938) 307; Hopkins (1938 a) 109, (1939 a) 50; Nel (1942) 58; Cardoso (1939) 45.

Sphacelotheca Reiliana (Kuhn) Clint., Nel (1942) 59.

on **Sorghum halepense** Pers., Zululand, *v. d. Byl 44*.

Sorghum caffrorum Beauv., Pretoria, *Stahl*, 27368.

Zea Mays Linn., Pretoria, *Doidge*, 20360; Garstfontein, *Pienaar*, 2142; Pan, *Goodwin*, 1480; Standerton, *Pole Evans*, 11, 6586; Sandbaken, near Val, *Burtt Davy*, 505; Immerpan, *Steyn*, 25920; Kestell Rd., *Milne*, 10064; Gwebi (Rh. 784); Salisbury (Rh. 2062); Brandfort, *Verwoerd* (v. d. Byl 1079, 2359, Stell. 7); Moçambique, *Cardoso*; Umbeluzi, *Lima*; Chai Chai, *de Sousa*.

Sorosporium Setariae McAlp.

Zundel (1938) 305.

on **Setaria perennis** Hack., Irene, *Pole Evans*, 17269.

Sorosporium Simii Pole Evans.

Pole Evans (1916 b) 543; Sacc. Syll. Fung. XXIII: 617; Doidge & Bottomley (1931) 31; Zundel (1938) 308; Nel (1942) 109.

on **Sorghum arundinaceum** Stapf, Mount Edgecombe, *McClean*, 24918.

Sorghum verticilliflorum Stapf, Maritzburg, *J. M. Sim*, 8978, Type; Stanger, *v. d. Byl*, 10031: Zululand, *v. d. Byl 44*; New Guelderland, *Addison* (v. d. Byl 503) 31786; Natal Sugar Estates, *McMartin*, 34561.

? **Sorghum** sp., Johannesburg, *Eastwood*, 11324.

Sorosporium Tembuti P. Henn. & Pole Evans.

P. Hennings (1908) 270; Sacc. Syll. Fung. XXI: 514; Wakefield (1936) 53; Zundel (1938) 305.

on **Hyparrhenia Tamba** Anderss., Waterval Onder, *Burtt Davy*, 169 Type, Kew; Ledzee, *Doidge*, 1794; Weenen, *Pentz*, 30924.

Sorosporium verecundum (Syd.) Zundel

Zundel (1938) 304.

Ustilago verecunda Syd., H. Sydow (1935) 231.

on **Urochloa panicoides** Beauv., Wonderboom, *Mogg*, 26609, Type; Gezina, *Bottomley*, 32766.

Urochloa pullulans Stapf, near Radium, on Pretoria–Warmbaths Road, *Mogg*, 35158.

Sorosporium versatilis (Syd.) Zundel

Zundel (1938) 308.

Ustilago versatilis Syd., H. Sydow (1935) 231.

on **Panicum longijubatum** Stapf, Prospect, *Flanagan*, 9550, Type.

Sorosporium Wildemannianum P. Henn.

Verwoerd (1926 b) 30 ; Zundel (1938) 317.

on **Cymbopogon** sp., Transvaal, *v. d. Byl.*

Sorosporium Zundelianum Ciferri

Zundel (1938) 304.

on **Hyparrhenia Tamba** Anderss., near Mont-aux-Sources, *Bottomley*, 14167.

Sphacelotheca Amphilophis Syd.

H. Sydow (1935) 232 ; Zundel (1938) 299.

on **Bothriochloa insculpta** A. Camus, along Crocodile River, Schagen, *Liebenberg*, 26023, Type ; Onderstepoort, *Mogg*, 28596 ; Brits, *Sellschop*, 30641.

Sphacelotheca Andropogonis (Opiz) Bubak

Zundel (1938) 298 ; Hopkins (1939 a) 5.

Ustilago Ischaemi Fuck., P. Hennings (1908) 270 ; Verwoerd (1926 b) 8 ; Doidge & Bottomley (1931) 65.

on **Andropogon gayanus** Kunth., Salisbury, *Hopkins.*

Bothriochloa glabra A. Camus, Lydenburg District, *Pienaar*, 1073 ; Ladysmith, *Haycroft*, 1080 ; Maritzburg, *T. R. Sim*, 7759.

Cymbopogon schoenanthus Spreng., Barberton, *Pole Evans*, 1921.

Hyparrhenia dissoluta (Nees) Hubb., Barberton, *Pole Evans*, 1156 ; Nelspruit, *Pienaar*, 10096.

Andropogoneae undet., Mbabane, *Pole Evans*, 53.

Sphacelotheca Anthephorae (Syd.) Zundel

Zundel (1938) 295.

Ustilago Anthephorae Syd., H. & P. Sydow (1914 a) 197 ; Sacc. Syll. Fung. XXIII : 608 ; Verwoerd (1926 b) 30.

on **Anthephora pubescens** Nees, Kaffraria near Christiana, *Burtt Davy*, 2249, 5151 ; Potchefstroom, 18159 ; Wesselsbron, Hoopstad, *Goossens*, 26644 ; Grootfontein, South West Africa, *Engler*, Type ; Kimberley District, *Wilman*, 35140.

Sphacelotheca concentrica Zundel

Zundel (1930) 138, (1938) 296.

on **Cymbopogon plurinodis** Stapf, Kaalplaats, *Mogg*, 10708, Type ; near Pienaars River, *Mogg*, 30631.

Sphacelotheca cruenta (Kuhn) Potter

Zundel (1938) 296.

on **Sorghum caffrorum** Beauv., Tzaneen, 30828.

Sorghum verticilliflorum Stapf, Prinshof, *Codd*, 30676, *Mogg & Liebenberg*, 28595, *K. M. Putterill*, 30707.

Sphacelotheca densa (McAlp) Ciferri

Zundel (1938) 296.

on **Hemarthria altissima** (Poir) Stapf & Hubb., Dargle Road, *Mogg*, 12957, 32082 ; Sevenoaks, *Mogg*, 32083 ; Isipingo, *Bottomley*, 11708 ; Bellair, *Mogg*, 31286.

Sphacelotheca Dinteri (Syd.) Zundel

Zundel (1938) 298.

Ustilago Dinteri Syd., H. & P. Sydow (1915 b) 37 ; Sacc. Syll. Fung. XXIII : 608 ; Hopkins (1932) 465.

on **Dichanthium papillosum** Stapf, Otjikuara-Okahandja, *Dinter 3286*, Type ; S. Rhodesia, without locality, *Hopkin.*

Sphacelotheca Doidgeae Zundel

Zundel (1930) 131, (1938) 296.

on **Bothriochloa glabra** A. Camus, Edendale, *Doidge*, 1997, Type ; Maritzburg, *J. M. Sim*, 8939 ; Rietondale, *Liebenberg*, 29928.

Bothriochloa sp., Onderstepoort, *Mogg*, 15058.

Sphacelotheca Evansii Zundel

Zundel (1930) 133, (1938) 297.

on **Hyparrhenia dissoluta** (Nees) Hubb., Olifants River, *Pole Evans*, 14174, Type ; Nelspruit, *Burtt Davy*, 89.

Sphacelotheca flagellata (Syd.) Zundel

Zundel (1938) 301.

Ustilago flagellata Syd., H. & P. Sydow (1911) 144.

on **Rottboellia exaltata** Linn. f., Tzaneen, *Doidge*, 20331 ; Arcturus, *Hopkins &* (Rh. 5554).

Sphacelotheca modesta (Syd.) Zundel

Zundel (1938) 301

Ustilago modesta Syd., H. Sydow (1935) 231.

on **Enneapogon brachystachyus** Stapf, Prieska, *Bryant*, 23506, Type ; without locality, *Burtt Davy* 20698.

Sphacelotheca Moggii Zundel

Zundel (1930) 130, (1938) 295.

on **Cymbopogon plurinodis** Stapf, Armoedsvlakte, *Mogg*, 19859, Type ; Estcourt, *West*, 30518.

Sphacelotheca monilifera (Ell. & Ev.) Clint.

Zundel (1938) 300 ; Hopkins (1938 a) 109, (1939 a) 22.

on **Heteropogon contortus** R. & S., Great Karasberg, *Ortendahl*, 27498 ; Matopos, *Rattray* (Rh. 1364) Kew ; Salisbury (Rh. 1907) ; Southern Angola (Percy Sladen Mem. Exped.), *H. H. W. Pearson*, Kew ; Thornby Farm, Hartley District, *Hornby*, 33986.

Sphacelotheca natalensis Zundel

Zundel (1930) 139, (1938) 298.

on **Cymbopogon excavatus** Stapf, Mooi River, *Mogg*, 11705, Type.

Sphacelotheca Panici-miliacei (Pers.) Bubak

Verwoerd (1926 b) 25 ; Zundel (1938) 314.

on **Panicum** spp., Transvaal, *v. d. Byl.*

Sphacelotheca Pappophori (Pat.) Zundel

Zundel (1938) 300.

Ustilago Pappophori Syd., H. Sydow (1926) 265.

on **Enneapogon cenchroides** (Licht.) Hubb.; Okahandja, *Govt. Vet. Off.*, 17279.

Enneapogon scaber Lehm, Klein Karasberg, *Dinter.*

Sphacelotheca pretoriense (Pole Evans) Zundel

Zundel (1938) 301.

Ustilago pretoriense Pole Evans, H. & P. Sydow (1914 b) 263 ; Verwoerd (1926 b) 21 ; Sacc. Syll. Fung. XXIII : 612.

on **Urochloa panicoides** Beauv., Pretoria, *Mogg*, 7408, Type ; Pretoria, *Pole Evans*, 7799, *Howlett*, 8926, *Bottomley & Louwrens*, 28591.

Sphacelotheca Ruprechtii Syd.

H. Sydow (1935) 232 ; Zundel (1938) 297.

on **Hyparrhenia dissoluta** (Nees) Hubb., Marikana, *Pallister*, 27377, Type ; Commando Nek, *Pole Evans*, 12224 ; Nelspruit, *Liebenberg*, 26647, 25905.

Sphacelotheca Sorghi (Link) Clint.

Zundel (1930) 132, (1938) 295 ; Hopkins (1938 a) 109, (1939 a) 45 ; Doidge & Bottomley (1931) 32 ; Nel (1942) 59.

Cintractia Sorghi-vulgaris Clint., Pole Evans (1906 a) 137 ; Verwoerd (1926 b) 23, (1931 a) 299 ; Nel (1942) 58.

Ustilago Sorghi Pass., P. Hennings (1903) 155.

on **Sorghum arundinaceum** Stapf, between Matucua and Humbe, *Baum 85.*

Sorghum caffrorum Beauv. and vars., Maseru *Wacher*, 23193 ; Wakkerstroom, *Buchanan*, 316 ; Amsterdam, *Buchanan*, 315 ; Barberton, *Andrews*, 23178, *Mogg*, 7786 ; Potchefstroom, 2088 ; Immerpan, *Todd*, 25437 ; Letaba, *Curson*, 28824 ; Pretoria, *v. d. Byl*, 5635, Kew (Syd. Fung. exot, exsicc. 168) ; Pretoria, *F. du Toit*, 26115 ; Schroeders, *Hillermann* (v. d. Byl 533), 31872 ; Bloemfontein, *Verwoerd* ; Kroonstad, *v. d. Merwe* (Stell. 238, v. d. Byl 2106) ; Ixopo, *Storey*, 17271 ; Inyanga (Rh. 220) ; Craigmore (Rh. 843) ; Rusapi (Rh. 863) ; Banket (Rh. 2640) ; Glendale (Rh. 2997) ; Gatooma (Rh. 3365, 3366).

Sorghum sp. [*S. Dochna* (Forsk.) Snowd. var. *melliferum* Snowd. affinis] Amsterdam, 30442.

Sphacelotheca tenuis (Syd.) Zundel

Zundel (1930) 137, (1938) 297.

on **Hyparrhenia Buchanani** Stapf, without locality, 20701.

Hyparrhenia sp., Dargle Road, *Mogg*, 11862.

Sphacelotheca transvaalensis Zundel

Zundel (1930) 139, (1938) 298.

on **Sorghum versicolor** Anderss., Onderstepoort, *Mogg*, 17047, 27577, 26399 ; Pretoria, *L. W. Doidge*, 26397, *Mogg*, 26143, *F. du Toit*, 26398 ; Hunters Road, *Hopkins* (Rh. 5190).

Sphacelotheca Vryburgii Zundel

Zundel (1931) 298, (1938) 296.
on **Themeda triandra** Forsk., Armoedsvlakte, *Pole Evans*, 9733, Type.

Sphacelotheca Zilligii Zundel

Zundel (1930) 142, (1938) 300.
on **Cymbopogon** sp., Vryburg, *Mogg*, 20666, Type.

Tolyposporium Chloridis P. Henn.

P. Hennings (1895 c) 49 : Sacc. Syll. Fung. XIV : 426 : Verwoerd (1926 b) 28 ; Doidge & Bottomley (1931) 55 ; Zundel (1938) 319 ; Nel (1942) 59.
on **Chloris gayana** Kunth. Groenkloof, *Pole Evans*, 9056 ; Mid-Illovo, Natal, *v. d. Byl 386*, 9770, *Power* (v. d. Byl 483) 31772 : Mountain Rise, *Doidge*, 1627 ; Zululand, *Mogg*, 17043 ; Natal, *v. d. Byl 252*.

Doubtful species : " A study of specimens of *Tolyposporium Chloridis* P. Henn. from various parts of Southern Africa indicates that the fungus is not one of the Ustilaginales but rather one of the dark coloured Hyphomycetes " Zundel, l.c.

Tolyposporium Penicillariae Bref.

Verwoerd (1926 b) 30 ; Zundel (1938) 30 ; Doidge & Bottomley (1931) 49.
on **Pennisetum spicatum** Koern., Umbelusi, *Howard*, 633.
Pennisetum typhoides Stapf & Hubb., Moçambique, *v. d. Byl*.

Tolyposporium Tristachydis (Syd.) Zundel

Zundel (1938) 310.
Sorosporium Tristachydis Syd., H. & P. Sydow (1910) 663.
on **Tristachya Rehmanni** Hack., Kaalfontein, *Pole Evans*, 9436.
Tristachya hispida (Thunb.) K. Schum., Mtunzini, *Mogg*, 32085.

Ustilago affinis Ell. & Everh.

Verwoerd (1926 b) 19 ; Zundel (1938) 288.
Ustilago Stenotaphri P. Hennings (1898) 293 : not *U. Stenotaphri* McAlp.
Ustilago Henningsii Sacc. & Syd., Sacc. Syll. Fung. XVI (1902) 368.
as *Ustilago stenotaphricola* in Nel (1942) 109.
on **Stenotaphrum secundatum** (Walt.) Kze., Windhoek, *Schlechter 6879*, Kew (v. d. Byl 1681 ex Herb. Berol.)

Ustilago Andropogonis-finitimi Maubl.

Maublanc (1906) 74 ; Zundel (1939) 293.
on **Hyparrhenia finitima** Stapf, Moçambique, *Le Testu*, Type.

Ustilago Avenae (Pers.) Jens.

v. d. Byl (1922 d) 284 ; Verwoerd (1926 b) 17, (1931 a) 249 ; Doidge & Bottomley (1931) 41 ; Zundel (1938) 290 ; Hopkins (1938 a) 109, (1939 a) 6 ; Nel (1942) 59 ; Cardoso (1945) 149.
on **Avena sativa** Linn., Queenstown, *Simson*, 12830 ; Stellenbosch, *v. d. Byl 86* ; Malmesbury, *v. d. Byl 2381* : Bloemfontein, *Verwoerd* ; Pretoria, *Howlett*, 8923 ; Hartebeestepoort, *Sellschop*, 31045 ; Salisbury (Rh. 1383) Kew, (Rh. 1817) ; Lidgetton, *Fannin*, 31946 ; Moorreesburg, *Visser* (Stell. 133), Umbeluzi, *Guimarāis*.

Ustilago bromivora (Tul.) Fisch. v. Waldh.

v. d. Byl (1922 d) 284 ; Doidge & Bottomley (1931) 54 ; Verwoerd (1929 b) 13, (1931 a) 299 ; Zundel (1938) 293 ; Nel (1942) 59.

on **Bromus brevis** Steud., Prinshof, *Codd*, 33999.

Bromus catharticus Vahl, Capetown, *Peringuey*, 544 ; Rosebank, *Mally*, 11004 : Stellenbosch, *v. d. Byl 249* ; Grahamstown, *Mally*, 20703 ; Queenstown, *Simson*, 12832 ; Bultfontein, near Rosmead junction, 1248 ; Skinner's Court, *Burtt Davy*, 429, 949 ; Pretoria, *L. Turner*, 6933 ; Prinshof, *Pentz*, 20590 ; Amersfoort, *Robertson*, 195 ; Zandspruit, *Gillespie*, 280, 284, 285 ; Athol, Amsterdam, 30439 : Ficksburg, *Blore*, 20633 ; Sterkfontein, *Pienaar*, 2091 ; Bloemfontein, *Verwoerd* ; Hopefield, *v. d. Byl 1314* ; Kestell, *van Aswegen*, 33440 ; Snyberg, *v. d. Plank*, 33760 ; Stellenbosch, *Verwoerd* (Stell. 266).

Ustilago Crameri Koern.

Pole Evans (1913 b) 175 ; Verwoerd (1926 b) 30, (1931 a) 299 ; Doidge & Bottomley (1931) 37 ; Zundel (1938) 289.

on **Setaria italica** (L.) Beauv., Standerton, *Pratt*, 2204 ; Kroonstad, *Grobler*, 11716 ; Fort Louis, *Parkhouse*, 9817 ; Bloemfontein, *Verwoerd* ; Kestell, *van Aswegen*, 33439.

Ustilago Crus-galli Tracy & Earle

Zundel (1938) 292.

on **Echinochloa Holubii** Stapf, Kaffraria near Christiana, *Burtt Davy*, 2247.

Ustilago Cynodontis P. Henn.

P. Hennings (1903) 155, (1908) 270 ; Doidge & Bottomley (1931) 12 : Hopkins (1938 a) 109, (1939 a) 16 ; Zundel (1938) 289, (1939 a) 572, (1939 b) 982 ; Nel (1942) 109.

Ustilago Carbo Tul. f. *Cynodontis Dactylonis* Thuem., von Thuemen (1878 a) 356.

as *Ustilago Dregeana* Tul., Kalchbrenner (1882 b) 18 ; Sacc. Syll. Fung. VII : 467 ; Verwoerd (1926 b) 19, (1929 b) 13, (1931 a) 299.

? as *Ustilago segetum* (Bull.) Dittm., Sacc. Syll. Fung. VII : 461.

on **Cynodon Dactylon** Pers., Somerset East, *MacOwan* (de Thuem. Myc. Univ. 1418) 20705, *MacOwan* 1363 (S.A.M. 33886) ; Kimberley, *Moran*, 12953 ; Vryburg, *Burtt Davy*, 5173 ; Pretoria, *Pole Evans*, 112, *Doidge*, 5636, *Tennant*, 11003, *Mogg*, 11014, 24889, 26086, *van Nouhuys*, 21049, *Wager*, 21581, *Fischer & Louwrens*, 28590 ; Warmbaths, 947 ; Marikana, *Pallister*, 11005 ; Bloemfontein, *Potts*, 9752 ; Glen, *Heyinck*, 20299 ; O.F.S., *v. d. Merwe*, 904 : Fauresmith, *C. A. Smith*, 23093 ; Salisbury, *Hopkins* (Rh. 1221) Kew ; between Ediva and Humbe, *Baum 82* ; Stellenbosch, *Leisk* (v. d. Byl 667), *Verwoerd* (Stell. 269) ; Bloemfontein, *Verwoerd* ; Wilderness (Stell. 941, v. d. Byl 2586).

Cynodon Bradleyi Stent, Ermelo, *Henrici*, 21111.

Cynodon hirsutus Stent var. **parviglumis** Stent, Kokstad, *Mogg*, 11710.

Cynodon incompletus Nees, Grahamstown, *Webber*, 20356 ; The Wilderness, *Mogg*, 23661, 25442 ; Garstfontein, *Pienaar*, 1086, 1957 ; Pretoria, *Lounsbury*, 8843 ; Boksburg North, *Kresfelder*, 32638.

Ustilago Dactyloctaenii P. Henn.

Zundel (1938) 290.

on **Dactyloctenium aegyptium** (L.) Richt., Kentani, *Pegler 2347*, 9114 : Inhaca Is., *Mogg*, 29921.

Dactyloctenium geminatum Hack., Beira, *Nobles* (Eyles 1762) 14175.

Ustilago Danthoniae Kalchbr.

Kalchbrenner (1882 b) 18 ; Sacc. Syll. Fung. VII : 467 ; Verwoerd (1936 b) 30 ; Zundel (1938) 315.

on **Danthonia papposa** Nees, " Chumiberg ", near Lovedale, *Buchanan*, Type.

? on **Danthonia stricta** Schrad., Laaken Vlei, *E. P. Phillips* (S.A.M. 11933) 10998.

Ustilago Digitariae (Kunze) Rabenh.

Maublanc (1906) 74 ; Hopkins (1938 a) 109, (1939 a) 18 ; Verwoerd (1928 b) 239 ; Nel (1942) 59.

on **Digitaria gazensis** Rendl., Gwelo, *Eyles 5337* (Stell. 350, v. d. Byl 2523) ; Salisbury (Rh. 2017) ; Umvukwes (Rh. 2639).

? on **Panicum repens** Linn., Nhandoa, *Le Testu*.

Ustilago Dregeana Tul.

Tulasne (1847) 83 ; Montagne (1847) 176 ; Sacc. Syll. Fung. VII : 467 ; Zundel (1938) 289, 315 (1939 a) 572, (1939 b) 982.

on **Eragrostis** ? **porosa** Nees (*fide Chase*) Paarl, *Drége 9467*, Type.

Ustilago Ehrhartana Zundel

Zundel (1943) 164.

on **Ehrharta erecta** Lam. var. **natalensis** Stapf, on mountain top, in shade of a large **Ficus**, Ingwavuma, *O. West*, 30501, Type.

Ustilago Elionuri P. Henn. & Evans

P. Hennings (1908) 270 ; Sacc. Syll. Fung. XXI : 501 ; Verwoerd (1926 b) 31 ; Zundel (1938) 288.

on **Elyonurus argenteus** Nees, Pretoria, *Pole Evans*, 102, Type, Kew, *Murray*, 31284 ; Irene, *Pole Evans*, 17268 ; Rietfontein, *Pole Evans*, 9316 ; Daspoort, *Mogg*, 28537 ; Vaalbank, *Liebenberg*, 26648 ; Queenstown, *Galpin 2510*, Kew.

Ustilago Eragrostidis-japonicana Zundel

Zundel (1943) 165.

on **Eragrostis japonica** Trin., Welgelegen, Vryburg District, *Pentz*, 20621, Type.

Ustilago Evansii P. Henn.

P. Hennings (1908) 270 ; Sacc. Syll. Fung. XXI : 502 ; Verwoerd (1926 b) 20 ; van der Byl (1926 c) 287 ; Doidge & Bottomley (1931) 27 ; Zundel (1938) 294 ; Hopkins (1938 a) 109 ; Nel (1942) 59.

on **Setaria flabellata** Stapf, Mtunzini, *Mogg*, 17045.

Setaria sphacelata Stapf & Hubb., Tzaneen, *Burtt Davy*, 10, Type ; Rosehaugh, *T. R. Sim*, 7797 ; Nelspruit, *Liebenberg*, 26651 ; Barberton, *Liebenberg*, 25993 ; Maritzburg, *T. R. Sim*, 7757 ; Mtambanana, *Salberg*, 15441 ; Mtunzini, *Mogg*, 17044 ; Salisbury, *Eyles 2088* (v. d. Byl 1810) 14003, *Eyles 6694*.

Setaria sp., Rusapi, *Eyles* (Rh. 56, v. d. Byl 2021) Kew.

Ustilago Fingerhuthiae Syd.

H. Sydow (1935) 230 ; Verwoerd (1926 a) 31 ; Zundel (1938) 291.

on **Fingerhuthia africana** Lehm., Pretoria, *Pole Evans*, 1085, Type ; Groenkloof, *L. Turner*, 7405, *Pole Evans*, 8909.

Ustilago gigaspora Mass.

? on **Miscanthidium capense** Stapf, Transkei, *Saxton*, Kew.

Ustilago Holubii Syd.

H. Sydow (1935) 230 ; Zundel (1938) 290.
on **Echinochloa Holubii** Stapf, Prinshof, *Liebenberg*, 24942, Type ; Vaalbank, *Liebenberg*, 26095 ; Vryburg, *Mogg*, 17042.

Ustilago Hordei (Pers.) Lagerh.

Pole Evans (1906 a) 135 ; van der Byl (1922 d) 284 ; Doidge & Bottomley (1931) 11 ; Hopkins (1938 a) 109, (1939 a) 288 ; Nel (1942) 60 ; Cardoso (1939) 45.
Ustilago Jensenii Rostr., Verwoerd (1926 b) 16, (1929 b) 288, (1931 a) 299.
on **Hordeum vulgare** Linn., Skinners Court, 97 ; Groenkloof, *Sellschop*, 9823 ; Onderstepoort, *Mogg*, 27507, 27508, 26579, 28862, 30802 ; Beginsel, *Burtt Davy*, 239 ; Amersfoort, 942 ; Carolina, *Vernon*, 7074 ; Kimberley, 7080 ; Louis Trichardt, *Sellschop*, 30825 ; Orange Free State, *v. d. Merwe*, 1181 ; Bloemfontein, *Verwoerd* ; Stellenbosch, *v. d. Byl 247* ; Robertson, *Verwoerd* ; Wellington, *Verwoerd* ; Salisbury, *Eyles* (Rh. 5 ; v. d. Byl 1732) Kew, *Hopkins* (Rh. 1384) Kew ; Moçambique, *Cardoso* ; Umbeluzi, *Guimarães*.

Ustilago Hyparrheniae Hopkins

Hopkins (1938 a) 109, (1939 a) 23.
on **Hyparrhenia filipendula** Stapf, Charter (Rh. 2297) 30371, Type.

Ustilago Kolleri Wille

Hopkins (1930) 528.
Ustilago levis (Kellerm. & Swing.) P. Magn., Doidge & Bottomley (1931) 41 ; Zundel (1938) 288 ; Hopkins (1943) 180.
on **Avena sativa** Linn., Rietvlei, *Dicks*, 538 ; Amersfoort, 939 ; Ermelo, *Burtt Davy*, 940 ; Lovedale, *Doidge*, 10971 ; Onderstepoort, *Mogg*, 26580, *Steyn*, 28715 ; Groenkloof, *L. Turner*, 7094 ; Aliwal North, 8352 ; Shangani, *Hopkins* ; Stellenbosch, *Gorter* (Stell. 1084) ; Richmond, *Westwood*.

Ustilago Liebenbergii Zundel.

Zundel (1943) 165.
on **Chloris virgata** Sw., Vlakfontein, Wolmaransstad District, *Liebenberg*, 26412, Type.

Ustilago Mariscana Zundel

Zundel (1943) 165.
on **Mariscus sieberianus** Nees, Infulzane, *Mogg*, 33062, Type.

Ustilago nuda (Jens.) Kellerm. & Swing.

v. d. Byl (1922 d) 284 ; Verwoerd, (1926 b) 17, (1929 b) 7 ; Zundel (1938) 316 ; Doidge & Bottomley (1931) 11.
on **Hordeum vulgare** Linn., Stellenbosch, *v. d. Byl* ; Philadelphia, *v. d. Byl 248* ; Brandfort, *Verwoerd* (Stell. 280) ; Robertson, Malmesbury, Caledon, Knysna, George, *Verwoerd* ; Piesangkop, *Sellschop*, 28320.

Ustilago Peglerae Bubák & Syd.

H. & P. Sydow (1914 b) 264 ; Pole Evans & Bottomley (1918) 188 ; Verwoerd (1926 b) 21 ; Sacc. Syll. Fung. XXIII : 614 ; Zundel (1938) 294.

on **Ornithogalum lacteum** Jacq., Kentani, *Pegler 1921*, 7101, Type, Kew ; Grahamstown, *Archibald*, 35287.

Ustilago puellaris Syd.

H. Sydow (1935) 231 ; Zundel (1938) 289.

on **Hyparrhenia hirta** Stapf, Nelspruit, *Liebenberg*, 26646.

Ustilago Rabenhorstiana Kuhn

Zundel (1938) 293 ; Hopkins (1938 a) 109, (1939 a), 418.

Ustilago Cesatii Fisch. de Waldh., Lorrain Smith (1901) 472.

on **Acroceras macrum** Stapf, Salisbury, (Rh. 1939).

Digitaria ternata Stapf, Mooi River, *Mogg*, 11703; Pretoria, *Mogg*, 26144; Meintjes Kop, *Mogg*, 34924 ; Groenkloof, *Mackay*, 20351 ; Kaalfontein, *Mogg*, 11704 ; Salisbury, *Eyles 2097*, 13999 ; Salisbury (Rh. 1897).

? on **Hyparrhenia bracteata** Stapf, between Monino and Lake Ivantâla, Huilla, *Welwitsch 7512*.

Ustilago Schlechteri P. Henn.

P. Hennings (1895 b) 325 ; Sacc. Syll. Fung. XIV : 416 ; Verwoerd (1926 b) 31 ; Zundel (1938) 292.

on **Sporobolus çapensis** Kunth, Tweedie, *Mogg*, 11644.

Sporobolus sp., " Naiboornfontain ", Transvaal, *Schlechter*, Type.

Ustilago scitaminea Syd.

H. Sydow (1924 b) 281 ; Zundel (1938) 289.

as *Ustilago Sacchari* Rabenh., Kalchbrenner (1882 b) 18 ; Sacc. Syll. Fung. VII : 456 ; Verwoerd (1926 b) 18.

on **Erianthus giganteus** (Walt.) Muhl., Natal.

Imperata cylindrica Beauv., var. **Thunbergii** D. & S., Pyramids, *Mogg*, 32429.

Imperata cylindrica Beauv., Natal.

Saccharum officinarum Linn., Umhlanga River, *Medley Wood 650*, 11111 ; Tongaat, *McMartin*, 34560 (=Var. *Sacchari-Barberi*).

Ustilago Sladenii Pole Evans

Pole Evans (1915 a) 115 ; Verwoerd (1926 b) 31 ; Zundel (1938) 316.

on **Ehrharta** sp., Garies, *Pearson 6728*, 8409, Type.

Ustilago Trachypogonis Zundel

Zundel (1938) 292.

on **Trachypogon plumosus** Nees, Kaalfontein, *Mogg*, 11709, Type.

Ustilago Tragana Zundel

Zundel (1943) 166.

on **Tragus Berteronianus** Schult., Potgietersrust District, *Pole Evans*, 28708, Type ; Hollandsdrift, *Bottomley*, 28784.

Ustilago Trichoneurana Zundel

Zundel (1938) 166.

on **Trichoneura grandiglumis** Stapf & Hubb., Edendale, Pretoria District, *Mogg*, 22844, Type.

Ustilago trichophora (Link) G. Kunze

Zundel (1938) 291 ; Hopkins (1943) 184.
on **Echinochloa colona** Link, Buffelspoort, *Talbot*, 34568.
Echinochloa Crus-galli Beauv., Prospect, *Flanagan*, 9424.
Echinochloa pyramidalis Hitch, & Chase, Salisbury (Rh. 4367) 33130, and (Rh. 5281).

Ustilago Tritici (Pers.) Rostr.

Pole Evans (1906 a) 144 ; Verwoerd (1926 b) 16 ; Doidge & Bottomley (1931) 67 ; Zundel (1938) 291 ; Hopkins (1938 a) 109, (1939 b) 46.
on **Triticum aestivum** Linn., Swellendam, *v. Zyl*, 30381 ; Stellenbosch, *v. d. Byl 2361 ;* Moorreesburg, *Visser* (Stell. 134) ; Hopefield, *v. d. Byl 2360 ;* Swellendam, *van Zyl*, 30381 ; Groenkloof, *Sellschop*, 9821 ; Potchefstroom, *Laurence*, 20599, 20625 ; O.F.S., *v. d. Merwe*, 1068 ; Salisbury, Shamva, Felixburg, Umtali, Arcturus, *Hopkins*.

Ustilago Urochloana Zundel

Zundel (1943) 166.
on **Urochloa trichopus** Stapf, Brown's Kuil Drift, Crocodile River, *Mogg*, 20690.

Ustilago Vaillanti Tul.

Verwoerd (1926 b) 21 ; Doidge & Bottomley (1931) 58 ; Zundel (1938) 290.
on **Albuca fastigiata** Dryand, Dassie Krantz, Grahamstown, *Dyer*, 23630.
Albuca altissima Dryand, Cape Town, *Marloth*, 15450.
Eucomis punctata L'Herit., Kentani, *Pegler*, 2001, 8795.
Scilla Kraussii Baker, Inanda, *Medley Wood 649*, 9525, 11110.
Scilla natalensis Planch., Durban, *Lansdell* (v. d. Byl 502), 31785.
Scilla spp., Caversham, *Mogg*, 12956 ; Pretoria, *Mogg*, 23508, *Stent*, 9824 ; Stellenbosch, *v. d. Byl 2398*, *Verwoerd* (Stell. 304).

Ustilago verruculosa Wakef.

Wakefield (1922) 162 ; Hopkins (1938 a) 109.
? as *Ustilago neglecta* Niessl., Hopkins (1939 a) 109.
on **Setaria pallidifusca** Stapf & Hubb., Livingstone (Rh. 1940) ; Wankie, *Hopkins*.

Ustilago Zeae (Beckm.) Unger

Verwoerd (1926 b) 18, (1931 a) 299 ; Doidge & Bottomley (1931) 36 ; Zundel (1938) 292 ; Cardoso (1938) 74, (1945) 141.
as *Ustilago Maydis* (DC.) Tul., Cardoso (1937) 154, (1939) 45.
on **Zea Mays** Linn., Maraisburg, 1178 ; Graaff-Reinet, *Joubert*, 8836 ; Seymour, *Burnett*, 9781 ; Adelaide, *Mapham*, 14699 ; Pretoria, *Griffiths*, 20313 ; Incomati, *McClean*, 25872 ; Durban, *Bam* (v. d. Byl 516) ; Bloemfontein, *Verwoerd ;* Stellenbosch, *v. d. Byl ;* Marracuene, *Cardoso ;* Umpala, *Mendonça ;* Maele, *Soares*.

Xylosorium Piperii Zundel

Zundel (1939 a) 576.
on **Piper** sp., Transvaal, *Rogers*, 11806, Type.

TILLETIACEAE.

Entyloma australe Speg.

Zundel (1938) 313.

Protomyces Physalidis Kalchbrenner & Cooke (1880) 22 ; Sacc. Syll. Fung. VII : 321. *Entyloma Physalidis* (Kalchbr. & Cooke) Wint., Sacc. Syll. Fung. VII : 494 ; Verwoerd (1926 b) 11 ; Doidge & Bottomley (1931) 16 ; Hopkins (1930) 416, (1938 a) 110, (1939 a) 33 ; Nel (1942) 57.

on **Physalis angulata** Linn., Pretoria, *Doidge*, 1509, 5638, *Bottomley*, 11008, *Pole Evans*, 14126 ; Fairy Glen, *Bottomley*, 30652 ; Pyramids, *Mogg*, 32646, 32692 ; Buffelspoort, *Bottomley*, 34091 ; Nelspruit, *Liebenberg*, 26068 ; Salisbury (Rh. 386, 1889), *Hopkins*, (v. d. Byl 2541) ; Avondale (Rh. 400) ; Norton (Rh. 2551) ; Knysna, *du Plessis*, (Stell. 592).

Physalis peruviana Linn., Boschberg, *MacOwan 1121**, 3344, 22028, 21955, Kew (Rabenh. Fung. Eur. 3003) ; Boschberg, *v. d. Byl 1682*, Kew ; Piet Retief, *Mansvelt*, 21047 ; Karino, *Wager*, 26628 ; Orchards, *Bottomley*, 30653 ; Grahamstown, *Dewar*, 10028 ; Wellington, *Verwoerd ;* Sinoia (Rh. 747) ; Salisbury (Rh. 1149) ; Avondale (Rh. 1216) ; Marandellas (Rh. 1880) ; Stellenbosch, *Dippenaar* (Stell. 849).

* The host of MacOwan's collection is *Physalis peruviana ;* MacOwan identified it as *Ph. Hermanni*, which was copied by Kalchbrenner as "*Ph. Hornemanni*" ; in Rabenh. Wint. Fung. Eur., 3003, the host is given as *Withania somnifera.*

Entyloma Bidentis P. Henn.

Verwoerd (1926 b) 12 ; Zundel (1938) 313 ; Hopkins (1938) 110, (1939) 7.

on **Bidens pilosa** Linn., Pretoria, *Doidge*, 1508 ; Kentani, *Pegler 1973*, 8853 ; Salisbury (Rh. 1772, 1857).

Bidens bipinnata Linn., Pretoria, *Doidge*, 29965, *Hean*, 32386, 32645 ; Pyramids, *Mogg*, 32694.

Entyloma Calendulae (Oud.) de Bary

Nel (1942) 56.

on **Calendula** sp., Stellenbosch, *Dippenaar* (Stell. 1011, v. d. Byl 2767).

Entyloma Dahliae Syd.

H. & P. Sydow (1912 a) 36 ; Sacc. Syll. Fung. XXIII : 624 ; Verwoerd (1926 b) 12, (1929 b) 11, (1931 a) 299 ; Eyles (1926) 638 ; Doidge & Bottomley (1931) 22 ; Zundel (1938) 313 ; Hopkins (1938 a) 110, (1939 a) 16 ; Nel (1942) 57.

on **Dahlia pinnata** Cav., Harden Heights, *Pole Evans*, 1976 ; Maritzburg, *Doidge*, 860 ; Nottingham Road, *McClean*, 33070 ; Vryheid, *de Bary*, 31004 ; Cambridge, *James*, 31285 ; Pretoria, *Doidge*, 18023; *Wager*, 26087, *Hean*, 30638, *v. d. Merwe*, 32644 ; Garstfontein, *S. J. Naude*, 30450 ; Johannesburg, *Bottomley*, 28776, *Terry*, 29951; *van Balen*, 32492, *Schreiber*, 34161 ; Bloemfontein, *Verwoerd ;* Klein Brak, *Verwoerd ;* Norton, *Eyles 43* (v. d. Byl 2026), Kew.

Entyloma fuscum Schroet.

Zundel (1943) 167.

on **Papaver Rhoeas** Linn., Durban, *McClean*, 30453, 30435 ; Stellenbosch, *Dippenaar* (Stell. 836, 837, 1010).

Papaver somniferum Linn., Stellenbosch, *Dippenaar* (Stell. 1026).

Entyloma Oleandrae P. Henn.

P. Hennings (1895 b) 326 ; Zundel (1938) 317.

on **Oleandra articulata** Presl., Inanda, *Medley Wood.*

Entyloma Zinniae Syd.

H. Sydow (1935) 233 ; Zundel (1938) 313.
on **Zinnia pauciflora** Linn., Pretoria, *Bottomley*, 14256, Type, *Doidge*, 23197, *Hean*, 30455, Buffelspoort, *Doidge*, 28614.

Tilletia Ayresii Berk. ex Mass.

Tilletia heterospora (P. Henn.) Zundel (1938) 310.
Ustilago heterospora P' Henn., P. Sydow (1899 a) (132) ; Sacc. Syll. Fung. XIV : 413 ; Maublanc (1906) 74 ; Verwoerd (1926 b) 30 ; Doidge & Bottomley (1931) 29 ; Hopkins (1938 a) 109, (1939 a) 30, (1943) 187.
on **Panicum laevifolium** Hack., Tzaneen, *Pole Evans*, 7.
Panicum Maximum Jacq., Warmbaths, *Pole Evans*, 20; Groenkloof, *Mellé*, 11717; Elim, *Mingard*, 24359 ; Nelspruit, *Liebenberg*, 26668 ; Cedara, *Staples*, 17081 ; Durban, *Kent*, 15443 ; Maputo River, *H. A. Wager*, 8399 ; Salisbury, *Eyles 1982*, 14000, *Eyles 2154* (Rh. 2299) ; Marromeu, *Le Testu ;* Zebediela, *Muller*, 33443.
? on **Acroceras macrum** Stapf, Salisbury, *Rattray* (Rh. 5282) 33750.

Tilletia echinosperma Ains.

sub *Tilletia heterospora* (P. Henn.) Zundel, Hopkins (1939 a) 42.
sub *Ustilago heterospora* P. Henn., Maublanc (1906) 74 ; Hopkins (1938 a) 109.
on **Setaria glauca** Beauv., Marromeu, *Le Testu*.
Setaria sphacelata Stapf & Hubb., M'Soneddi (Rh. 1921).

Tilletia foetans (Berk. & Curt.) Trel.

Doidge & Bottomley (1931) 67 ; Hopkins (1930) 652 ; Zundel (1938) 310.
Tilletia laevis Kuhn, Pole Evans (1906 a) 144 ; v. d. Byl (1922 d) 284 ; Verwoerd (1926 b) 14 ; Hopkins (1938 a) 110, (1939) 46.
on **Triticum aestivum** Linn., Potchefstroom, 1909 ; Aliwal North, *Housefall*, 7413 ; Caledon, *Verwoerd* (v. d. Byl 2183) ; Rusapi (Rh. 1297) ; Salisbury, (Rh. 2186).

Tilletia transvaalensis Zundel

Zundel (1931) 299, (1938) 311.
on **Eragrostis aspera** Nees, Mucklenburg, *Wearing*, 25463, Type.

Tilletia Tritici (Bjerk.) Wint.

Doidge & Bottomley (1931) 67 ; Verwoerd (1926 b) 13 ; Zundel (1938) 311 ; Nel (1942) 57.
Tilletia caries (DC.) Tul., Doidge & Bottomley (1931) 67.
on **Triticum aestivum** Linn., Mooibank, *Lawrence*, 20624 ; nr. Bethlehem, *v. d. Merwe*, 1069 ; Lady Grey, *Nel* (v. d. Byl 2098) ; Caledon, *Verwoerd* (v. d. Byl 2183).

Tilletia verrucosa Cooke & Mass.

Cooke (1888 c) 16 ; Sacc. Syll. Fung. IX : 286.
on **Panicum longijubatum** Stapf, between Lupata and Tete, *Kirk*.

Tilletia Viennotii Syd.

Zundel (1938) 311.
on **Briza maxima** Linn., Lion's Head, *Thomson*, 14079.

Tuburcinia Eriospermi Syd.

H. Sydow (1924 a) 237 ; Verwoerd (1926 b) 27 ; Zundel (1938) 317 ; Nel (1942) 57.

on **Eriospermum latifolium** Jacq., Stellenbosch, *v. d. Byl 1142*, Type.
Eriospermum pubescens Jacq., Stellenbosch, *Verwoerd* (Stell. 57).
Eriospermum sp., Stellenbosch, *Verwoerd* (Stell. 261).

Urocystis Agropyri (Preuss) Schroet.

Verwoerd & du Plessis (1931) 297.

on **Elymus** sp., Bot. Gardens, Cape Town, *Verwoerd* (Stell. 464).

Urocystis Gladioli Wernham

? on **Gladiolus** sp., Plaston, *Stock*, 30951.

Urocystis Hypoxidis Thaxt.

on **Hypoxis costata** Baker, Irene, *Pole Evans*, 21108.

Urocystis occulta (Wallr.) Rabenh.

Verwoerd (1929 a) 49 ; Nel (1942) 56 ; Doidge & Bottomley (1931) 56.

on **Secale cereale** Linn., Robertson, *Verwoerd* (Stell. 329) ; Stellenbosch, *Verwoerd* (Stell. 359, v. d. Byl 2713).

Urocystis Ornithoglossi (Syd.) Zundel

Zundel (1938) 312.

Tuburcinia Ornithoglossi Syd., H. Sydow (1935) 233.

on **Ornithoglossum glaucum** Salisb., Smitskraal, *Burtt Davy*, 1888, Type.

Urocystis Tritici Koern.

V. A. Putterill (1920) 252 ; v. d. Byl (1922 d) 284 ; Verwoerd (1926 b) 26 ; (1929 a) pp. ; Zundel (1938) 312 ; Nel (1942) 57 ; Doidge & Bottomley (1931) 67.

on **Triticum aestivum** Linn., Zeerust, *v. Heerden*, 11790, 12454, 13050 ; *Putterill*, 13049 ; Erasmus, *Malan*, 26082 ; Taaibosspruit, *Kleyn*, 15528 ; Witbank, *Osborn*, 20593 ; Vlakdrift, 32391 ; Stellenbosch, *Verwoerd*, (Stell. 141, v. d. Byl, 2402, 2403, 2404, 2405) ; Caledon, *v. d. Byl 2208 ;* Philadelphia, *v. d. Byl 234 ;* Bredasdorp, Ceres, Clanwilliam, Darling, Hopefield, Moorreesburg, Piquetberg, Porterville, Swellendam, Tulbagh, Uniondale, Willowmore, *Verwoerd.*
Triticum dicoccum Schrank, Stellenbosch, *Verwoerd* (Stell. 300).
Triticum durum Desf., Stellenbosch, *Verwoerd* (Stell. 302).
Triticum turgidum Linn., Stellenbosch, *Verwoerd*, (Stell. 301).

GRAPHIOLACEAE.

Graphiola Phoenicis (Moug.) Poit.

Cooke & Kalchbrenner (1881) 27 ; Wakefield (1936) 53 ; Doidge & Bottomley (1931) 45 ; Hopkins (1938 a) 104, (1939 a) 33 ; Nel (1942) 98.

on **Phoenix canariensis** Chaub., Newlands, 5661 ; Grahamstown, *Dewar*, 265 ; Port Elizabeth, *Doidge*, 1231 ; Pretoria, *Burtt Davy*, 415*; Pretoria, 410, 434, 470.
Phoenix dactylifera Linn., Port Elizabeth, *Doidge*, 1235 ; Pretoria, *Doidge*, 5634, 14242 ; Nelspruit, *Wager*, 26363.

Phoenix reclinata Jacq., Inanda, *Medley Wood 554*, 11207, 10412, Kew ; Maputo River, 515, Kew ; Chibuto, *Howard*, 980 ; Kentani, *Pegler 2307*, 8957, Kew ; Nelspruit, *Joubert*, 23707 ; East London, *Bartel* (Stell. 287) ; Salisbury (Rh. 1390) ; v. d. Byl 1736) ; Umtali (Rh. 1015) ; Rumbaru (Rh. 71) ; Avondale (Rh. 1150).

Uredinales.

MELAMPSORACEAE.

Coleosporium Clematidis Barcl.

P. & H. Sydow (1915) 653 ; Doidge (1927 a) 166 ; Dietel (1928) 45.

Caeoma Clematidis Thuem., von Thuemen (1876 b) 426 ; Sacc. Syll. Fung. VII : 867 ; J. Phillips (1931) 159.

sub *Uredo Clematidis* Berk., Kalchbrenner & Cooke (1880) 21.

on **Clematis brachiata** Thunb., Boschberg, *MacOwan 1141*, 4383, 10160, 20788, 20795, Kew (Rabenh. Wint. Fung. Eur. 4043 ; de Thuemen Myc. Univ. 539 ; Roum. Fung. Sel. Exsic. 4525 ; S.A.M. 28727) ; Natal, *Medley Wood 457*, 10580 ; Barberton, *Pole Evans*, 1861 ; Kentani, *Pegler 1884*, 2359, Kew.

Clematis Oweniae Harv., Inanda, *Medley Wood 563*, 801, 10581, 11223, 31906, Kew.

Coleosporium Hedyotidis Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 21 ; Sacc. Syll. Fung. VII : 759 ; P. & H. Sydow (1915) 635 ; Doidge (1927 a) 166.

on **Oldenlandia amatymbica** (Hochst.) O. Ktze., Inanda, *Medley Wood 60*, 10156, Kew ; The Willows, *Burtt Davy*, 36 ; Swaziland, *Burtt Davy*, 52 ; Garstfontein, *Erasmus*, 1256, 1419, 2194, 6600, *Pienaar*, 8908, 30944 ; Skinners Court, *Pole Evans*, 1456 ; Groenkloof, *Pole Evans*, 9692, 14171 ; Pretoria, *Wager*, 23369 ; Bethlehem, *v. d. Merwe*, 8910, Kew ; Mooi River, *Mogg*, 10067.

Oldenlandia sp., Nottingham Road, *McClean*, 32706.

Coleosporium Ipomoeae Burr.

Doidge (1927 a) 167.

on **Hewittea bicolor** Wight, Inanda, *Medley Wood 467*, 9479 ; Winkle Spruit, *Pole Evans*, 1598, *Doidge*, 2501, 9100 ; Durban, *v. d. Byl*, 12334 ; Isipingo, *Doidge*, 6633.

Cronartium Gilgianum P. Henn.

P. Hennings (1897) 83 ; P. & H. Sydow (1915) 582 ; v. d. Byl (1926 c) 287 ; Doidge (1927 a) 165 ; Nel (1942) 27.

Cronartium Bresadoleanum P. Hennings (1895 c) 51 ; Hopkins (1938 a) 108.

Crossopsora Gilgiana (P. Henn.) Syd., H. & P. Sydow (1918) 243.

Cronartium Bresadoleanum var. *Eucleae* P. Henn., Eyles (1915) 277.

on **Euclea Kellau** Hochst., Bulawayo, *Eyles 1253* (v. d. Byl 1803) 12170.

Euclea lanceolata E. Mey., Koedoes River, *Doidge*, 1737 ; Lemana, *Doidge*, 1738, Kew.

Euclea macrophylla E. Mey., Nelspruit, *Thomson*, 729 ; Barberton, *Pole Evans*, 1151, 1852, *v. d. Byl*, 5620, *Thorncroft*, 18097 ; Winkle Spruit, *Pole Evans*, 1399 ; Lemana, *Doidge*, 1739.

Euclea natalensis A. DC., Durban, *Medley Wood 558*, 9496, 10630, *Doidge*, 1617, *v. d. Byl 239* ; Umgeni Beach, *Pole Evans*, 2415 ; Winkle Spruit, *Doidge*, 2509 ; Isipingo, *Doidge*, 6646, *Wager*, 32422 ; Amanzimtoti, *Doidge*, 1606 ; Kentani, *Pegler 2342*, 9089, 9115, Kew ; East London, *Doidge*, 12420 ; Pirie Forest, *Doidge*, 22417 ; Mtunzini, *Laughton*, 33527 ; Sabie, *Mogg*, 32273 ; Nelspruit, *Doidge*, 32399, *Bottomley* 33601 ; Gowie's Kloof, Grahamstown, 35159.

Euclea sp., Woodbush, *v. d. Byl 1538*; Entabene, *Laughton*, 33597 ; Hippo Pool, Kruger National Park, *Liebenberg*, 30959, 30960.
on leathery leaves of unknown tree, Huilla, *Antunes*.

Cronartium Zizyphi Syd. & Butler
Doidge (1948 b) 898.
on **Zizyphus mucronata** Willd., between Acornhoek and Tzaneen, *Liebenberg*, 32724 (Uredo only).

Melampsora aecidioides Schroet. (sensu lato).
Doidge (1927 a) 157 ; Verwoerd (1929 b) 23 ; Doidge & Bottomley (1931) 51.
as *Melampsora Tremulae* Tul., v. d. Byl (1922 d) 284 ; Nel (1942) 28.
on **Populus alba** Linn., Inchanga, 733 ; Woodbush, 7102.
Populus spp., Cape Town, 639 ; Groot Drakenstein, 711 ; Cape, *Lounsbury*, 724 ; Stellenbosch, *v. d. Byl 245* ; Wellington, *Bottomley*, 1514 ; Cape Peninsula, Wellington, Groot Drakenstein, *Verwoerd* ; Bloemfontein, *Gemmell*, 21936 ; Piesanghoek, *Bosman*, 29859 ; Buffelspoort, *Turner*, 30780 ; Stellenbosch, Verwoerd, *du Plessis* (Stell. 879) ; Mamathes, *Hean*, 32141 ; Pretoria, *Bosman*, 34319 ; Fountains Valley, *Bottomley*, 34419.

Melampsora Helioscopiae Wint. (sensu lato).
Doidge (1927 a) 157.
on **Euphorbia heterophylla** Linn., Pretoria, *Hean*, 29876, *Mogg*, 33278, *Bottomley*, 30979 ; Durban, *McClean*, 32206 ; Natal, *Kent*, 33603.
Euphorbia Kraussiana Bernh., Claridge, *Doidge*, 9087.
Euphorbia striata Thunb., Mooi River, *Mogg*, 17035 ; Klapperkop, *Reinecke*, 29720.
Euphorbia spp., Barberton, *Pole Evans*, 1851 ; Bethlehem, *v. d. Merwe*, 1065.

Melampsora Hypericorum Wint. var. **australis** Doidge
Doidge (1927 a) 158.
sub *Melampsora Hyperici* Schroet., Kalchbrenner & Cooke (1880) 22.
on **Hypericum aethiopicum** Thunb., Somerset East, *MacOwan 1392*, Kew ; Hogsback, *K. M. Putterill*, 30079.
Hypericum Lalandii Choisy, Natal, *Medley Wood 610*, 10362, Kew.
Hypericum Sonderi Bredell, Inanda, *Medley Wood 646*, 9480, 10361 ; Mooi River, *Mogg*, 12241 ; Garstfontein, *Pienaar*, 1946, 1988 ; Pretoria, *Pole Evans*, 1302 ; Klapperkop, 30290 ; Groenkloof, *Pole Evans*, 9691 ; Rietfontein, *Pole Evans*, 9314 ; Lydenburg Distr., *Pienaar*, 1074, Kew.

Melampsora Junodii Doidge
Doidge (1927 a) 158.
on **Vernonia senegalensis** Less., Rikatli, *Junod*, 11723, Type.

Melampsora Lini (Ehrenb.) Lév.
Verwoerd (1929 b) 12 ; Nel (1942) 28.
on **Linum africanum** Linn., Stellenbosch, *Duthie* (v. d. Byl 1308), *Verwoerd*, (Stell. 150).
Linum usitatissimum Linn., Elsenburg and Stellenbosch, *Verwoerd*.

? **Melampsora puccinioides** Wint.
Winter (1885 b) 22 ; Sacc. Syll. Fung. VII : 593 ; P. & H. Sydow (1915) 393.
on **Helichrysum** sp., Natal, *Medley Wood 67*.
Doubtful species.

Melampsora Ricini Pass.

P. & H. Sydow (1915) 391 ; v. d. Byl (1926 c) 287 ; Doidge (1927 a) 159 ; Doidge & Bottomley (1931) 17 ; Hopkins (1938 a) 108, (1939 a) 40 ; Nel (1942) 28.

Caeoma Ricini Schlecht., von Thuemen (1875) 380.

Uredo Ricini Biv. Bern., von Thuemen l.c. ; Kalchbrenner (1882 b) 25.

Melampsorella Ricini (Biv. Bern.) de Toni, Sacc. Syll. Fung. VII : 596 ; Cardoso (1939) 44.

as *Uromyces Ricini* Biv. Bern., Verwoerd (1929 b) 9.

on **Ricinus communis** Linn., nr. Somerset East, *MacOwan 1028*, 10163, 20783, 20789 (Thuem. Myc. Univ. 341 ; S.A.M. 28724) Kew ; Inanda, *Medley Wood 33*, 10161 ; Durban, *v. d. Byl 184, 187*, *McClean*, 32300 ; Illovo, *v. d. Byl 573 ;* Pretoria, 55, *Bottomley*, 30968 ; Northern Transvaal, 179 ; Umbelusi, *Howard*, 524 ; Kenilworth, 738 ; Grahamstown, 1013, *Baine*, 20778 ; Groenkloof, *L. Turner*, 7402 ; Gazaland, *Swynnerton*, 10705 ; Buffelspoort, *Pallister*, 11505 ; Pretoria, *Thomson*, 14203 ; Boulders, *Wager*, 23363 ; Salisbury, *v. d. Byl 2513* and (Rh. 550, 2125) Kew ; Shamva (Rh. 2674) ; Stellenbosch, *Verwoerd* (Stell. 27) ; George, Wellington, Wynberg, *Verwoerd ;* Stellenbosch, *v. d. Byl 2763 ;* Umtali, Melsetter, *Hopkins ;* Moçambique, *Cardoso*.

Melampsora Vitellinae Thuem. (sensu lato)

Doidge (1927 a) 159.

Uredo mixta Duby f. *Salicis capensis* Thuem., von Thuemen (1879) 102 : Kalchbrenner (1882 b) 25.

Melampsora mixta (Schlecht.) Schroet., Sacc. Syll. Fung. VII : 589.

on **Salix capensis** Thunb., Somerset East, *MacOwan 1029* (Thuem. Myc. Univ. 1140 ; S.A.M. 33935) 20766 ; Vaal River, Boshoff Distr., *Burtt Davy*, 923.

Milesina Dieteliana (Syd.) Magn.

Doidge (1927 a) 162.

on **Polypodium lycopodioides** Linn., Amanzimtoti, *Doidge*, 1634.

Milesina nervisequa Syd.

P. & H. Sydow (1915) 481 ; Doidge (1927 a) 162 ; v. d. Byl (1926 c) 287.

Caeoma nervisequum Thuem., von Thuemen (1877) 412 ; Sacc. Syll. Fung. VII : 867.

?sub *Uredo Filicum* Klotzsch, Kalchbrenner (1882 b) 25.

?sub *Uredo Polypodii* (Pers.) DC., Sacc. Syll. Fung. VII (1888) 857.

on **Pellaea viridis** (Forsk.) Prantl, Boschberg, *MacOwan* (Thuem. Myc. Univ. 1141) 20781, Kew ; Natal, *Medley Wood 441*, 10162, Kew ; Garstfontein, *Pienaar*, 999 ; Durban, *Pole Evans*, 1370 ; Lemana, *Doidge*, 1836 ; Woodbush, *v. d. Byl 1529*.

? on **Polystichum adiantiforme** (Forsk.) J. Sm., Somerset East, *MacOwan 1025*, (S.A.M. 28729).

Pucciniastrum Agrimoniae (Diet.) Tranzsch.

P. & H. Sydow (1915) 446 ; Doidge (1927 a) 161 ; Dietel (1928) 40.

Coleosporium ochraceum Bon., Cooke (1880 b) 14.

sub *Phragmidium obtusum* Tul., Kalchbrenner (1882 b) 27.

on **Agrimonia Eupatoria** Linn. var. **capensis** Harv. Somerset East, *MacOwan 1112*, (Thuem. Myc. Univ. 749 ; S.A.M. 33917) 10157, 10158, 20777, 20797, Kew, and *MacOwan 1113 ;* Inanda, *Medley Wood 432*, 332 ; Fort Beaufort, *Pole Evans*, 303 ; Garstfontein, *Pienaar*, 1150, 1202, 1261, 2147, 6655 ; Maritzburg, *Pole Evans*, 1407 ; Grootfontein nr. Harrismith, *v. d. Byl*, 2313 ; Kentani, *Pegler 1889*, 2353, Kew ; Lidgetton, *Mogg*, 11638 ; Tweedie, *Mogg*, 11649 ; Groenkloof, *Pole Evans*, 18081 ; Haenerts-

burg, *Doidge*, 20323 ; Nelspruit, *Liebenberg*, 25977 ; Piesanghoek, *Watson*, 24351 ; Donkerpoort, *Doidge & Bottomley*, 29771 ; The Willows, *Doidge & Bottomley*, 29814 ; Debbe's Ravine, *Mogg*, 29847 ; Nottingham Road, *McClean*, 32284, 32311.

Uredinopsis macrosperma (Cooke) Magn.

P. & H. Sydow (1915) 491 ; Doidge (1927 a) 163 ; Faull (1938) 87.

Uredo macrospermum Cooke (1879 b) 71 ; Kalchbrenner & Cooke (1880) 21 ; Sacc. Syll. Fung. VII : 853.

on **Pteridium aquilinum** (L.) Kuhn, Inanda, *Medley Wood 61*, 10590, 11224, Kew.

PUCCINIACEAE.

Cerotelium Fici (Cast.) Arth.

Verwoerd (1929 b) 12.

Kuehneola Fici Butl., Doidge (1927 a) 155 ; Doidge & Bottomley (1931) 24 ; Hopkins (1938 a) 105, (1939 a) 19 ; Cardoso (1937) 154, (1939) 44, (1944 b) 55, (1945) 154.

Uredo Fici Cast., v. d. Byl (1922 d) 285 ; Verwoerd (1931 a) 299.

Physopella Fici Arth., Nel (1942) 33.

on **Ficus carica** Linn., Grahamstown, *Dewar*, 289 ; Constantia, *Pole Evans*, 615 ; Lourenço Marques, 708 ; Maritzburg, *Doidge*, 852 ; Cape, *Mally*, 1207 ; Rhenosterfontein, Marico Distr., 1315 ; Cape Town, *MacOwan*, 20726 ; De Kol, *Aucamp*, 25159 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell. 161 ; v. d. Byl 1403), *du Plessis* (Stell. 882) ; Wynberg, Ladismith, Paarl, Oudtshoorn, Barrydale, *Verwoerd ;* Salisbury (Rh. 3408) ; Suldo Save, *Cardoso ;* Lourenço Marques, *Fidalgo, Carvalho*, 34256 ; Caniçado, *Barradas ;* Marracuene, *Soares ;* Umbeluzi, *Martins*.

Ficus Pretoriae Burtt Davy, Pretoria, *Burtt Davy*, 176, *Pole Evans*, 1298.

Cerotelium Gossypii Arth.

on **Gossypium** sp., Magut, 23190.

Diorchidium Tricholaenae Syd.

H. & P. Sydow (1912 a) 33 ; Sacc. Syll. Fung. XXIII : 787 : Doidge (1927 a) 138 ; Doidge & Bottomley (1931) 40.

on **Rhynchelytrum repens** (Willd.) Hubb., Barberton, *Burtt Davy*, 269, 586, Type ; Harden Heights, *Pole Evans*, 1449 ; Winkle Spruit, *Pole Evans*, 1605, 2393, Kew, *Doidge*, 2512 ; Amanzimtoti, *Doidge*, 1607 ; Natal, *Medley Wood*, 20631 ; Ndwedwe, *Halse*, 30292 ; Estcourt, *Pentz*, 30974 ; Schagen, *Liebenberg*, 30138.

Diorchidium Woodii Kalchbr. & Cooke

Kalchbrenner (1882 b) 26 ; Sacc. Syll. Fung. VII : 736 ; Magnus (1891 a) 91, (1891 b) 191 ; Doidge (1927 a) 137 ; Dietel (1928) 68, Doidge & Bottomley (1931) 65.

Puccinia Woodii (Kalchbr. & Cooke) Syd., P. & H. Sydow (1904) 836.

on **Milletia caffra** Meisn., Tongaat, *Medley Wood 70*, Type, 335, 10448, 10449, 22090, Kew ; Winkle Spruit, *Pole Evans*, 1593, 1978, *Doidge*, 2515 ; Amanzimtoti, *Doidge*, 1601 ; Port Shepstone, *Pole Evans*, 5606, Kew ; Umkomaas, *Bottomley*, 11893.

Endophyllum MacOwani Pole Evans

Pole Evans (1907 a) 165 as *E. Mac Owanianum ;* (1908 a) 252 ; P. & H. Sydow (1924) 332 ; v. d. Byl (1925 b) 193, (1926 c) 287 ; Doidge (1927 a) 163 ; J. Phillips (1931) 159 ; Hopkins (1938 a) 105 ; Nel (1942) 31.

Aecidium elegans Dietel (1889) 180 ; Sacc. Syll. Fung. IX : 320 ; P. & H. Sydow l.c.
Aecidium Rhamni Pers. f. *Rhamni prinoidis* Thuem., v. Thuemen (1877) 411.
sub *Puccinia coronata* Corda (*Aecidium Rhamni*), Kalchbrenner (1882 b) 22 ; Sacc. Syll. Fung. VII : 623.

on **Rhamus prinoides** L'Herit., Boschberg, *MacOwan 1279*, Type, 4275, 20735, 20761 (Rabenh. Fung. Eur. 3935 ; Thuem. Myc. Univ. 933) Kew ; George, *Pole Evans*, 379, Kew, *Doidge*, 17114 ; Woodbush, *Doidge*, 1772, Kew, 17738 ; Kentani, *Pegler 1849*, 2097, Kew ; Knysna, *Pienaar*, 2418, *Doidge*, 17215 ; George, *v. d. Byl 1363 ;* Knysna, *v. d. Byl 364 ;* Grootrivier, Knysna, *v. d. Byl 2267 ;* Gala Bush, *Doidge*, 33152 ; Salisbury, *Eyles 4311*.

Hamaspora longissima (Thuem.) Koern.

Koernicke (1877) 23 ; Massee (1892 b) 4 ; P. & H. Sydow (1915) 79 ; Doidge (1927 a) 9 ; v. d. Byl (1926 c) 287 ; Dietel (1928) 61 ; Doidge & Bottomley (1931) 13.
Uredo lucida Thuem., v. Thuemen (1876 b) 570.
Phragmidium longissimum Thuem., v. Thuemen (1875) 379 ; Magnus (1899 b) 182 ; Dietel (1905) 113 ; Sacc. Syll. Fung. VII : 750 ; Pole Evans (1906 a) 134.

on **Rubus Ludwigii** E. & Z., Spitzkop, *R. Pott*, 9776 ; Durban, *McClean*, 32303 ; between Kestell and Clarens, *Howlett*, 27562.
Rubus pinnatus Willd., Kentani, *Pegler 1887*, 2350, Kew ; Cramond, *Pole Evans*, 2404 ; Winter's Kloof, *Doidge*, 1620 ; Xumeni Forest, *Morgan & Doidge*, 30375.
Rubus rigidus Sm., Inanda, *Medley Wood 34*, 11055, *Medley Wood 582*, 11205, 10589, Kew ; Boschberg, *MacOwan 1024*, *1024 b* (Thuem. Myc. Univ. 542 ; Roum. Fung. sel. exsicc. 4517 ; S.A.M. 28746, 34197) 20721, 20742, 20723, 20746, Kew ; Kentani, *Pegler 1887*, *1888*, 2351, Kew ; Komgha, *Pegler*, 5161 ; East London, *Doidge*, 22413 ; Zoutpansberg, 144 ; New Agatha, *Doidge*, 1825 ; Wolhuter's Kop, *Pole Evans*, 8887 ; Kromrivier, *Doidge & Bottomley*, 32741 ; Schagen, *Liebenberg*, 26051.
Rubus transvaalensis C. E. Gust., Garstfontein, *Erasmus*, 1267, *Pienaar*, 1379, 1380, 1513, 1535, 1891, 1914, 1949, 6656, 6657, 6898, *Pole Evans* 2184 ; Duivelskloof, *Doidge*, 20333 ; Nelspruit, *Liebenberg*, 26016.
Rubus spp., Cape Town, *Saxton*, 691 ; Donkerpoort, *Doidge & Bottomley*, 29753 ; Grahamstown, *Archibald*, 33385 ; Stellenbosch, *Stubbings* (Stell. 1033) ; Kirstenbosch, *Loseby* (Stell. 561) ; Southern Rhodesia, *Hopkins*.

Hemileia Ancylanthi Syd.

P. & H. Sydow (1915) 208 ; Doidge (1927 a) 139.
Uredo Ancylanthi P. Hennings (1903) 158 ; Sacc. Syll. Fung. XVII : 439.

on **Ancylanthus fulgidus** Welw., Quiriri River, *Baum 728*, Kew, Type.

Hemileia Canthii Berk. & Br.

P. & H. Sydow (1915) 214 ; Doidge (1927 a) 141.
Coleosporium detergibile Thuem., v. Thuemen (1875) 379 ; Kalchbrenner (1882 b) 26 ; Sacc. Syll. Fung. VII : 756.
Uredo detergibilis P. Hennings (1903) 160 ; Sacc. Syll. Fung. XVII : 439.

on **Canthium ciliatum** O. Ktze., Boschberg, *MacOwan 1107* (Thuem. Myc. univ. 243 ; S.A.M. 33918), 20779, Kew.
Canthium huillense Hiern., Longa R., *Baum 580*, Kew.
Canthium orbiculare Good, Quiriri, *Baum 806*, Kew.
Canthium sp., Wyebank, *Doidge*, 9084.

Hemileia Evansii Syd.

H. & P. Sydow (1912 a) 34 : P. & H. Sydow (1915) 214 : Sacc. Syll. Fung. XXIII : 792 ; Doidge (1927 a) 141.

on **Tricalysia capensis** (Meisn.) Sim, Mbabane, *Miller*, 590.
Tricalysia Sonderiana Hiern., Natal, *Doidge*, 6635, Kew.

Hemileia Fadogiae Syd.

H. & P. Sydow (1912 a) 34 : P. & H. Sydow (1915) 212 : Sacc. Syll. Fung. XXIII : 792 ; Doidge (1927 a) 94 ; Hopkins (1938 a) 105, (1939 a) 19.

on **Fadogia Cienkowskii** Schw., Mbabane, *Miller*, 757 : Nelspruit, *Pole Evans*, 7391, Kew ; Gazaland, *Swynnerton*, 10710.
Fadogia sp., Melsetter, *Hopkins*.
Pygmaeothamnus Zeyheri (Sond.) Robyns, Heidelberg, 281, Type : Meintjies Kop, *Pole Evans*, 12229 : The Willows, *Pole Evans*, 2209 : Pyramids, *Mogg*, 26376 : Newcastle, *Doidge*, 21232 : Waterberg, *Steyn*, 28811 : Kaalfontein, *Mogg*, 34218.

Hemileia Scholzii Syd.

H. & P. Sydow (1910) 260 : P. & H. Sydow (1915) 216 : Doidge (1927 a) 142.
Uredo Scholzii P. Henn., Maublanc (1906) 74.

on **Clerodendron glabrum** E. Mey., Amanzimtoti, *Doidge*, 1569, 1570, Kew.
Clerodendron sp., Mudungba, *Le Testu*.

Hemileia vastatrix Berk. & Br.

Medley Wood (1883) 7, 21, (1906) 13 : P. Sydow (1899 a) (131) : Burtt Davy (1904) 297 : Pole Evans (1907 a) 165 ; P. & H. Sydow (1915) 209 : v. d. Byl (1926 c) 288 ; Doidge (1927 a) 140 ; Doidge & Bottomley (1931) 19 ; Gyde (1932) 296 : Hopkins (1938 a) 105, (1939 a) 14 : Cardoso (1939) 44, (1944 b) 56, (1945) 159.

Uredo Gardeniae-Thunbergiae P. Hennings (1903) 160 : Sacc. Syll. Fung. XVII : 440.

on **Coffea arabica** Linn., Riet Valley Estate, *Medley Wood*, 323, 20857 : Victoria County, *Medley Wood*, Kew ; Durban, *Medley Wood*, 349, 372 : Lower Umzimkulu, *Medley Wood*, Kew : Winkle Spruit, *Pole Evans*, 1403 ; Verulam, *Pole Evans*, 6824, *James*, 7788 : Pinetown, *McClean*, 24941, 30935 : Umbogintwini, *McClean*, 25469, 30936 ; Tzaneen, *Pole Evans*, 5, 42, 59, 172, Kew : *Doidge*, 20322 : Lemana, *Pole Evans*, 991 : Potchefstroom, *Theron*, 23498 : Louis Trichardt, *v. Rooyen*, 23142 : Gabieshoek, Lydenburg Distr., *v. Rooyen*, 21933 ; Gazaland, *Swynnerton*, 10709 ; Melsetter (Rh. 2106) : Duivelskloof, 24344 : Zoutpansberg, *Burtt Davy*, Kew ; Moçambique, *Cardoso* Mualama, Quelimane, *Guimarāis ;* Ribàvé, *Gomezy Sousa*.
Gardenia Thunbergiae Linn., between Kitive and Humbe, *Baum 956*, Kew.
Gardenia sp., nr. Warmbaths, *Pole Evans*.

Hemileia Woodii Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 22 : Sacc. Syll. Fung. VII : 586 : P. Sydow (1899 a) (131) : Burtt Davy (1904) 297 : Medley Wood (1906) 14 : Pole Evans (1907 a) 166 : P. & H. Sydow (1915) 214 : v. d. Byl (1926 c) 288 : Doidge (1927 a) 142 : Gyde (1932) 298 ; Hopkins (1930) 416, (1938 a) 105, (1939 a) 47 ; Nel (1942) 32.

Uredo Vangueriae Cooke, in sched.

on **Pachystigma latifolium** Sond., Natal, *Medley Wood 8, 28, 540*, 340, 814, 10600, 10549, 10599, 11185, 32021, Kew : Winkle Spruit, *Pole Evans*, 1404, 5640 ; Scottsburgh, *Pole Evans*, 6835 : Krantzkloof, *Doidge*, 8250, Kew : New Hanover, *Rabie*, 9762 ; Entumeni, *Haygarth*, 14177 : Brighton Beach, *McClean*, 24940.

Pachystigma pygmaeum (Schlecht.) Robyns, White River, *Mogg*, 30909 ; nr. Warmbaths, *Mogg*.

Vangueria infausta Burch., Natal, *Medley Wood*, 324, 352, 10401 ; Table Mt., Natal, *Fuller*, 1679 ; Inanda, *Medley Wood*, 30941 ; Cramond, *Pole Evans*, 2446 ; Winkle Spruit, *Doidge*, 2497 ; Barberton, *Pole Evans*, 1154, *Lounsbury*, 1277 ; Letaba Drift, *Doidge*, 1815 ; Louis Trichardt, *V. A. Putterill*, 11845 ; Nelspruit, *Doidge*, 32403 ; Salisbury, *Eyles 2060* (Rh. 1959 ; v. d. Byl 1738) 14014.

Vangueriopsis lanciflora (Hiern.) Robyns, Rhodesia, *Hopkins*.

Kuehneola albida (Kühn) Magn.

P. & H. Sydow (1915) 315 ; Doidge (1927 a) 154 ; Dietel (1928) 60 : Doidge & Bottomley (1931) 13.

Phragmidium albidum (Kühn.) Ludw., v. d. Byl (1925 b) 193 ; J. Phillips (1931) 159 ; Nel (1942) 33.

on **Rubus** ? **Adolfi-Frederici** Engl., Paardeplaats, *Pienaar*, 1532.

Rubus rigidus Sm., Barberton, *Pole Enavs*, 1863 ; Nottingham Road, *McClean*, 32287.

Rubus transvaalensis C. E. Gust, Maritzburg, 33173 ; Wellington, *Doidge*, 992 ; Barberton, 642 ; Knysna, *Pienaar*, 2417, Kew.

Rubus spp., Stellenbosch, *Buller*, 6931 ; Cape Town, *Lounsbury*, 681 ; Deepwalls, *Bottomley*, 32125 ; Garstfontein, 18087 ; Knysna, *Duthie* (v. d. Byl 1172).

Masseeëlla Flueggeae Syd.

Doidge (1939) 488.

Uredo Brideliae (P. Henn. & Evans) Doidge (1927 a) 193.

Aecidium Brideliae P. Henn. & Evans, P. Hennings (1908) 272 : Sacc. Syll. Fung. XXI : 779 ; P. & H. Sydow (1924) 186.

on **Fluggea virosa** (Roxb.) Baill., nr. Nelspruit, *Burtt Davy*, 77, Kew ; Nelspruit, *Liebenberg*, 25968 ; Schagen, *Liebenberg*, 26359.

Phragmidium disciflorum (Tode) James

P. & H. Sydow (1915) 115 ; Doidge (1927 a) 10 ; Doidge & Bottomley (1931) 55 ; Hopkins (1938 a) 108, (1939 a) 41 ; Cardoso (1938) 75, (1944 a) 45, (1945) 162 ; Nel (1942) 33.

Phragmidium rosarum Fuck., Kalchbrenner (1882 a) 26.

Phragmidium subcorticium Wint., v. d. Byl (1922 d) 285 ; Verwoerd (1931 a) 299 ; Sacc. Syll. Fung. VII : 746 ; Cardoso (1937) 154, (1939) 45.

on **Rosa** spp., Kimberley, *Pole Evans*, 139 ; Pretoria, 141, 1171 ; Hercules, *Kresfelder*, 32803 ; Bloemfontein, 421 ; Lourenço Marques, 484 ; Durban, *Medley Wood 686*, 797, Kew, and *v. d. Byl 50 ;* Garstfontein, *Pienaar*, 1212, 1892 ; Wellington, *Bottomley*, 1866 ; Uniondale, *Pienaar*, 2430 ; Kentani, *Pegler 2377*, 9310 ; Port Elizabeth, 15041 ; Fort Beaufort, *Wager*, 28521 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell. 60), *v. d. Byl 1128 ;* Elsenburg, *v. d. Byl 88 ;* Salisbury (Rh. 3388) ; Sul do Save, *Cardoso ;* Lourenço Marques, *Cardoso*, *Guimarãis*, *Mota*. 34257.

Phragmidium violaceum (Schultz) Wint.

Verwoerd (1929 b) 8 ; v. d. Byl (1922 d) 285 ; Doidge & Bottomley (1931) 13.

? as *Phragmidium* sp., Nel (1942) 33.

on **Rubus ursinus** Cham. & Schlecht., Stellenbosch, *Verwoerd* (Stell. 39 ; ? v. d. Byl 1101).

Puccinia Absinthii DC.

Doidge (1927 a) 49 ; Verwoerd (1929 b) 5.

as *Puccinia discoidearum* Link in Herb. Kew.

on **Artemisia afra** Jacq., Inanda, *Medley Wood 625*, 10472, 11156, Kew ; Debbe's Ravine, *Bottomley*; 25334 ; Stellenbosch, *Verwoerd* (Stell. 382), *du Plessis* (Stell. 835).

Puccinia Abutili Berk. & Br.

P. & H. Sydow (1904) 471 ; Doidge (1927 a) 91 ; Cardoso (1945) 161.

Puccinia carbonacea Kalchbr. & Cooke., Kalchbrenner (1882 b) 24 ; Sacc. Syll. Fung. VII : 652.

on **Abutilon angulatum** (G. & P.) Mast., Pienaar's River, *C. A. Smith*, 23085 ; Gwaai Reserve, *Hopkins* (Rh. 5987) 33970.

Abutilon indicum (L.) Sweet, Umbelusi, *Howard*, 490, 527, Kew.

Abutilon Sonneratianum Sweet, Boschberg, *MacOwan 1275* (Rabenh. Fung. Eur. 3120) 3459, Kew ; Beaufort West, 304 ; Olifants River Tank, *Pole Evans*, 11022 ; Fountains, *Bosman*, 29905 ; Knysna, *Verwoerd* (Stell. 375).

Abutilon spp., Natal, *Medley Wood 23, 111*, 10467, 10468 ; Kroonstad, *Pont*, 24919.

Puccinia Acalyphae Doidge

Doidge (1927 a) 93, 199.

on **Acalypha angustata** Sond., The Willows, *Pole Evans*, 2309, Type : nr. Mont aux Sources, *Doidge*, 14157, Kew.

Puccinia advena Syd.

H. Sydow (1924 c) 419 ; Doidge (1927 a) 128 ; van der Byl (1926 c) 288 ; Nel (1942) 33.

on **Oplismenus hirtellus** Beauv., Woodbush, *v. d. Byl 1537*, Type, Kew.

Puccinia aecidiiformis, Thuem.

von Thuemen (1875) 378, (1880) 318 ; Kalchbrenner (1882 b) 24 ; Sacc. Syll. Fung. VII : 704 ; P. & H. Sydow (1904) 128 ; Pole Evans (1916 a) 644 ; Doidge (1927 a) 61 ; Nel (1942) 33.

on **Nidorella mespilifolia** DC., Boschberg, *MacOwan 1105*, Type, (Rabenh. Fung. Eur. 3611 : Roum. Fung. sel. exsicc. 4708 ; S.A.M. 28750) 3951, 8845, Kew ; Umgeni Lagoon, *Doidge*, 855 ; Winkle Spruit, *v. d. Byl*, 31968.

Puccinia aethiopica Kalchbr. & Cooke

Kalchbrenner (1882 b) 22 ; Sacc. Syll. Fung. VII : 653 ; P. & H. Sydow (1904) 298 ; Doidge (1927 a) 81.

on **Stachys aethiopica** Linn., Durban, *Medley Wood 47*, 10586 ; Somerset East, *MacOwan 1152*, Kew.

Stachys grandifolia E. Mey, Boschberg, *MacOwan 1252*, Type.

Stachys hyssopoides Burch., Bloemfontein, *Pienaar*, 2236, *Potts*, 9755 ; Parys, *C. A. Smith*, 26415.

Stachys spathulata Burch., Standerton, *v. d. Merwe*, 7351.

Stachys sp., Somerset East, *Trollip*, ex Herb. Pazschke, 6889.

Puccinia afra Wint.

Winter (1887) 26 ; Sacc. Syll. Fung. VII : 620 ; P. & H. Sydow (1904) 265 ; Doidge (1927 a) 73.

on **Lycium afrum** Linn., nr. Cape Town, *MacOwan*, Type (Rabenh. Fung. Eur. 3506, 4018) 3846, 4358, 6890, Kew ; Gordon's Bay, *Verwoerd* (Stell. 361).

Lycium campanulatum E. Mey., Durbanville, *v. d. Byl 2765*.

Puccinia africana Cooke

Cooke (1879 b) 71 : Kalchbrenner & Cooke (1880) 21 ; Sacc. Syll. Fung. VII : 706 ; P. & H. Sydow (1904) 156 ; Pole Evans (1916 a) 645 ; Doidge (1927 a) 63.

on **Spilanthes acmella** Linn., Kentani, *Pegler*, 7088, Kew.
Spilanthes africana DC., Inanda, *Medley Wood 200*, Type, 10465, 11162, Kew.

Puccinia Alepideae Doidge

Doidge (1927 a) 88.

on **Alepidea** sp., Tugela Valley, nr. Mont aux Sources, *Doidge*, 14158, Type.

Puccinia Allii (DC.) Rud.

Doidge (1948 b) 899.

? sub *Puccinia Blasdalei* Diet. & Holw., P. & H. Sydow (1904) 614.

on **Allium sativum** Linn., Joubertina, *Reinecke*, 32390, 32687, 33332 ; Oudtshoorn, *du Plessis*, 33926, 34926, 34350 ; Gansekraal, *Herald* (Stell. 1053).

? on **Allium Dregeanum** Kunth, without locality, Sydow.

Puccinia amadelpha Syd.

H. Sydow (1924 c) 420 ; van der Byl (1925 b) 193 ; Doidge (1927 a) 113 ; Nel (1942) 34.

on **Eucomis** sp., Knysna, *Duthie*, Type (Stell. 73, v. d. Byl 1174) ; Toise River, *Pienaar*, 2218 ; Harrismith, *V. A. Putterill*, 11869 ; without locality, 8979.

Puccinia Amphilophidis Doidge

Doidge (1939) 496.

on **Bothriochloa insculpta** A. Camus, Schagen, *Liebenberg*, 26024, Type ; Godwan River, *Liebenberg*, 26056, 29937 ; Nelspruit, *Liebenberg*, 26029 ; Warmbaths, *Curson*, 26394.
Bothriochloa glabra A. Camus, Mt. Edgecombe, *Pole Evans*, 1411 ; Pelindaba, *Doidge & Bottomley*, 29894, 29919.

Puccinia anomala Rostr.

Hopkins (1939 a) 23, (1938 a) 105.

sub *Puccinia triticina* Erikss., Verwoerd (1937) 648.

on **Hordeum murinum** Linn., South-western Cape, *Verwoerd*.
Hordeum vulgare Linn., var. **trifurcatum** (Schlecht.) Alefeld, South-western Cape, *Verwoerd*.
Hordeum sp., Lowdale (Rh. 258, 262) ; Salisbury (Rh. 473).

Puccinia Anthospermi Syd.

P. & H. Sydow (1904) 206 ; Sacc. Syll. Fung. XVII : 316 ; Doidge (1927 a) 66.

on **Anthospermum hirtum** Cruse, Cape, *Sieber*, Type.

Puccinia Antirrhini Diet. & Holw.

Doidge (1941 c) 229 ; Hopkins (1943) 179 ; Cardoso (1943) 53.

on **Antirrhinum majus** Linn., Westville, McClean, 30869 : Port Elizabeth, *Lust*, 30816 ; East London, *Thompson*, 30865, *Martin*, 32795 ; Kidd's Beach, *Venables*, 30866 ; Kirkwood, *Hess*, 30867 : Grahamstown, *N. J. G. Smith*, 30868 ; Basutoland, *Abernethy*, 31047 ; Johannesburg, *Hutchens*, 31088, *Nettleton*, 32793 ; Amsterdam, *Naudé*, 31282 ; Umtata, *Abernethy*, 32074 ; Pretoria, *Kraamwinkel*, 32091 ; Oranjeville,

Pretorius, 32197 ; Mamathes, *Hean*, 32392 ; Queenstown, 32641 ; Kingwilliamstown, *Schaefer*, 32642 ; Cape Town, *Stephens*, 32669 ; Rustenburg, *Hovy*, 32671 ; Green Point, *Peters*, 32796 ; Engcobo, *Pinkerton*, 32794 ; Cradock, *Moolman*, 32797 ; de Wildt, *v. Aardt*, 32798 ; Onderstepoort, 33600 ; Salisbury, Marandellas, Norton, Bulawayo, Rusapi, *Hopkins ;* Lourenço Marques, *Mota.*

Linaria sp., Mamathes, *Hean*, 32393 ; Pretoria, *Bottomley*, 33064.

Puccinia aristidicola P. Henn.

Doidge (1927 a) 119.

on **Aristida canescens** Henr., Vryburg, *Butler*, 10139, Kew.

Aristida congesta R. & S., Bloemfontein, *Potts*, 11313.

Puccinia Arundinellae Barcl.

Doidge (1927 a) 120.

Uredo pretoriensis Syd., H. & P. Sydow (1912 a) 34 ; Sacc. Syll. Fung. XXIII : 930.

Dicaeoma Arundinellae (Barcl.) Syd., H. Sydow (1922 b) 117.

on **Arundinella Ecklonii** Nees, Skinner's Court, *Sampson 116*, Kew, *Pole Evans*, 127, 1059, 1180, 1190 ; Donkerpoort, *Doidge & Bottomley*, 29987, 29988.

Puccinia Asparagi DC.

Doidge (1927 a) 110 ; Doidge & Bottomley (1931) 68.

on **Asparagus Cooperi** Bkr., Smitskraal, *Burtt Davy*, 20430 ; Pretoria, *Doidge*, 20431 ; Pretoria, *Louwrens*, 30630 ; Tumlini Hill, *Hornby*, 33749.

Asparagus plumosus Bkr., Bloemfontein, *v. d. Merwe*, 1486 ; Sterkwater, *Pienaar*, 1961, Kew ; Buffelsdrift, *Pienaar*, 1645, 5203 (Syd. Fung. exot. 10).

Puccinia Atropae Mont.

Doidge (1927 a) 74 ; Hopkins (1938 a) 105, (1939 a) 49 ; Nel (1942) 35.

Aecidium Withaniae Thuem., von Thuemen (1877) 411 ; Kalchbrenner & Cooke (1880) 21 ; Sacc. Syll. Fung. VII : 811 ; P. & H. Sydow (1924) 110.

on **Withania somnifera** Dun., Boschberg, *MacOwan 1138*, 11199, 20738 (S.A.M. 28723) ; Natal, *Medley Wood 447*, 10320 ; Hebron, *Gunn*, 746 ; Skinner's Court, *Pole Evans*, 1009 ; Garstfontein, *Pienaar*, 1485, 2450, 5633, 18068, Kew ; Pretoria, *Bottomley*, 12515, 12838 ; Pienaar's River, *Bottomley*, 32640 ; Onderstepoort, *du Toit*, 18118, 18119 ; Salisbury, *Walters*, 11010, *Eyles* (v. d. Byl 1806), 14010 ; Bethlehem, *v. d. Merwe*, 8917 ; Langholm Estates, *Bottomley*, 19872 ; Zwartkop, Cape, *Mellé*, 26360 ; Brakkloof, *Fourie*, 684 ; Kaalplaats, *Mogg*, 26146 ; Greylingspos, *Doidge*, 27352 ; without locality, *Burtt Davy*, 1600.

Puccinia aurea Wint.

Winter (1884 c) 260 ; Sacc. Syll. Fung. VII : 689 ; P. & H. Sydow (1904) 594 ; Doidge (1927 a) 105.

on **Monadenia comosa** Reichb., nr. Cape Town, *MacOwan*, Type.

Puccinia bakoyana Pat. & Har.

Doidge (1927 a) 70 ; Hopkins (1938 a) 105, (1939 a) 45, (1943) 180.

on **Borreria dibrachiata** K. Schum., Salisbury, *Eyles*, 14005 ; Umvukwes, *Hopkins.*

Puccinia Batatae Syd.

P. & H. Sydow (1904) 323 ; Sacc. Syll. Fung. XVII : 333 ; Doidge (1927 a) 84 ; Nel (1942) 35.

sub *Puccinia Ipomoeae* Cooke (1884) 6 ; P. Sydow (1899 a) (130) ; Sacc. Syll. Fung. VII : 671.
on **Ipomoea paniculata** (Linn.) R. Br., nr. Durban, *Medley Wood 822*, Type, 354, Kew Winkle Spruit, *Doidge*, 2506 ; Durban, *Bottomley*, 7822, Kew ; Umkomaas, *v. d. Byl 18*.

Puccinia Becii Doidge

Doidge (1927 a) 75, 200.
sub *Aecidium leiocarpum* Syd., H. & P. Sydow (1917) 143 ; Sacc. Syll. Fung. XXIII : 898.
sub *Puccinia Ocimi* Doidge in Herb. Kew
on **Becium obovatum** N.E. Br., Natal, *Medley Wood 46*, *568*, 10297 & 10298, 11198, Kew ; Garstfontein, *Pienaar*, 6609, Type ; Graskop, *Pole Evans*, 14689 ; Cedara, *Staples*, 20308.

Puccinia Behenis Otth.

Doidge (1927 a) 102.
Puccinia Lychnidearum Fuck., Kalchbrenner (1882 b) 23.
on **Silene capensis** Otth., Boschberg, *MacOwan 1143*, (S.A.M. 33922) Kew.
Silene sp., Cradock, *Lounsbury*, 944.

Puccinia berkheyicola Doidge

Doidge (1927 a) 50, 200.
on **Berkheya setifera** DC., Spionkop. *Wager*, 6830 ; Kaalfontein, *Pole Evans*, 9731, 10079, Type, Kew, *Mogg*, 11654.

Puccinia Blepharidis P. Henn.

P. Hennings (1903) 156 ; P. & H. Sydow (1904) 231 ; Sacc. Syll. Fung. XVII : 320 ; Doidge (1927 a) 71.
? as *Aecidium* sp., Nel (1942) 31.
on **Blepharis Buchneri** Lindau, nr. Manonge, *Baum 855*, 6885.
?on**Blepharis** sp., Humansdorp, *Duthie* (v. d. Byl 2454).

Puccinia Borreriae Syd.

P. & H. Sydow (1904) 209 ; Sacc. Syll. Fung. XVII : 316 ; Eyles (1926) 632 ; Hopkins (1903) 417 ; Nel (1942) 35.
sub *Puccinia Spermacoces* Berk. & Curt., P. Hennings (1903) 156.
on **Borreria angustifolia** K. Schum., Longa R., *Baum 637*, Type, Kew.
Borreria sp., Salisbury, *Eyles* (v. d. Byl 1808).

Puccinia Bottomleyae Doidge

Doidge (1939) 498.
on **Aristida barbicollis** Trin. & Rupr., Derdepoort, *Doidge & Bottomley*, 29795.
Aristida canescens Henr., Derdepoort, *Doidge & Bottomley*, 29789.
Aristida curvata Trin. & Rupr., Buffelspoort, *Doidge*, 29991.
Aristida junciformis Trin. & Rupr., Derdepoort, *Doidge & Bottomley*, 29793, Type.
Aristida scabrivalvis Hack, Derdepoort, *Doidge & Bottomley*, 29790.

Puccinia bromina Erikss.

Verwoerd (1929 b) 13 ; Doidge & Bottomley (1931) 54 ; Nel (1942) 35.
on **Bromus patulus** Mert. & Koch, Hopefield, *v. d. Byl 2485*.
Bromus rigidus Roth., Stellenbosch, *Verwoerd* (Stell. 115).
Bromus sp., Stellenbosch, *Verwoerd* (*v. d. Byl* 1259).

Puccinia Bulbostylidis Doidge

Doidge (1927 a) 117.

on **Bulbostylis Burchellii** C.B.Cl., Commando Nek, *Pole Evans*, 12236, Type ; Donkerpoort, *Doidge & Bottomley*, 29736 ; Derdepoort, *Doidge & Bottomley*, 29797.

Puccinia Byliana Dippenaar

Dippenaar (1931) 288 (lapsu calami *P. Bylianum*) ; Doidge (1939) 488 ; Nel (1942) 35.

Aecidium Bylianum Syd., H. Sydow (1924 a) 236 ; Doidge (1927 a) 172.

? as *Aecidium* sp., Nel (1942) 31.

on **Senecio bipinnatus** Less., Hopefield, *v. d. Byl 2600*.

Senecio Burchellii DC., Bloemfontein, *Potts*, 24875, *Gemmell*, 32313 ; Pretoria, *Fuller*, 15018 ; Mamathes, *Hean*, 33138 ; Fort Hare, *Giffen*, 33976 ; Steynsburg, *Mogg*, 31057 ; Grahamstown, *Archibald*, 35288.

Senecio integrifolius DC., Maraisburg, *Mogg*, 32696, *v. d. Linde*, 34339.

Senecio littoreus Thunb., Hopefield, *v. d. Byl 2356* (Stell. 331).

Senecio pinnulatus Th., Hopefield, *v. d. Byl 1298*, *2357* ; Stellenbosch, *Verwoerd* (Stell. 97 ; v. d. Byl 1177), *Duthie* (v. d. Byl 2468).

Senecio vulgaris Linn., Stellenbosch, *Verwoerd* (Stell. 281 ; v. d. Byl 2674).

Senecio spp., Ceres, *Dippenaar 101*, Type (Stell. 626 a, 626 c, 962); Hopefield, *v. d. Byl 2201*, *2194* ; Knysna, *Duthie* (v. d. Byl 2204) ; Stellenbosch, *Verwoerd* (v. d. Byl 1886).

Puccinia callistea Syd.

H. & P. Sydow (1909) 543 ; Sacc. Syll. Fung. XXI : 667 ; Doidge (1927 A) 86 ; Cardoso (1943) 57.

on **Voacanga Thouarsii** Roem. & Schult., Lourenço Marques, *Howard*, 632, Type ; Umbelusi, *Howard*, 529 ; Polana, *Howard*.

Conopharyngia elegans Stapf, Chalasi, *Howard*, 720 ; Rikatli, *Junod*, 11722 ; Lourenço Marques, *Guimarãis*, 34241.

Puccinia canaliculata (Schw.) Lagerh. var. **tenuis** Doidge

Doidge (1948 b) 900.

on **Cyperus esculentus** Linn., Hartebeestpoort Expt. Station, Brits, *F. du Toit*, 33120, Type ; Fort Beaufort, *Pole Evans*, 302 ; Groenkloof, *Pole Evans*, 8930 ; Tweedie, *Mogg*, 23149 ; Hartebeestpoort, *Doidge & Bottomley*, 33270 ; Malagazi, *Wager*, 32719.

Puccinia capensis Diet.

Pazschke (1905) (178) ; Doidge (1927 a) 109 ; Sacc. Syll. Fung. XXI : 673.

on **Moraea tricuspis** Ker., Cape, *MacOwan* (Rabenh. Fung. Eur. 4413) Kew.

Puccinia Caricis-cernuae Doidge

Doidge (1939) 492.

on **Carex cernua** Boott. var. **austro-africana** Kuk., Pelindaba, *Doidge & Bottomley*, 29873, Type ; Skinner's Court, *Doidge & Bottomley*, 23444.

Puccinia Cephalandrae Thuem.

von Thuemen (1876 b) 425 ; Kalchbrenner (1882 b) 23 ; P. Sydow (1899 a) (130) ; P. & H. Sydow (1904) 198 ; Doidge (1927 a) 65 ; Hopkins (1943) 186.

Uredo Cephalandrae Thuem., l.c.

Uredo dolichospora Kalchbr. Mscr.

Puccinia Momordicae Kalchbr., Cooke (1879 b) 71 ; Kalchbrenner (1882 b) 24 ; Sacc. Syll. Fung. VII : 714 ; P. & H. Sydow (1904) 200.
Puccinia Trochomeriae Cooke (1882 a) 125 ; Sacc. Syll. Fung. VII : 654 ; P. & H. Sydow (1904) 200 ; H. Sydow (1922 a) 60.
Aecidium Cephalandrae Cooke (1884) 6 ; Nel (1942) 29.

on **Coccinia indica** Wight & Arn., Duivelskloof, *Doidge*, 20343, Kew.
Coccinia palmata Cogn., Natal, *Medley Wood 829*, 370, Kew ; Maritzburg, *Doidge*, 8249 ; Durban, *v. d. Byl 115*.
Coccinia quinqueloba Cogn., Boschberg, *MacOwan 1146*, Type (Thuem. Myc. univ. 1031 : Rabenh. Fung. Eur. 2915 ; S.A.M. 28762), 20706, 20750, Kew ; Garstfontein, *Pole Evans*, 2207 ; Amalinda, *Pienaar*, 2176 ; van Staden's Pass, *Doidge*, 10863 ; East London, *Doidge*, 10899, 22407 ; Pirie Forest, *Doidge*, 12264.
Coccinia sessilifolia Cogn., Potgietersrust, *Pole Evans*, 132 ; Bosplaas, nr. Pretoria, *Mogg*, 32274 ; Olifantsrivier, *Scott*, 34036.
Coccinia sp., Wonderboom, *Mogg*, 23344.
Cucumis sp., Natal, *Pole Evans*, 10982.
Kedrostis punctulata Cogn., Bloemfontein, *Potts*, 11301.
Melothria punctata (Thunb.) Cogn., Entumeni, *Haygarth*, 14194, 14188 ; van Staden's Pass, *Doidge*, 17247.
Momordica balsamina Linn., Wonderboom, *Mogg*, 26400.
Momordica foetida Schum. & Thorn, Inanda, *Medley Wood 141*, 11163, 10471, 20642, Kew ; Piesanghoek, *Bosman*, 29904 ; Penhalonga, *Hopkins* (Rh. 4344).
Trochomeria macrocarpa Hk. f., Pretoria-Warmbaths Road, *Liebenberg*, 33525.
Trochomeria sagittata (Harv.) Cogn., Inanda, *Medley Wood 594*, 10513, Kew.

Puccinia Chaetacanthi Doidge

Doidge (1927 a) 71, 200.
on **Chaetacanthus setiger** (Pers.) Lindl., Elands River, *Thomson*, 14697, Type.

Puccinia Chloridis Speg.

Pole Evans (1906 a) 135 : Doidge (1927 a) 122 ; Doidge & Bottomley (1931) 55 ; Hopkins (1938 a) 106, (1939 a) 10 ; Nel (1942) 36.
on **Chloris gayana** Kunth, Bulawayo 1841 ; Groenkloof, *Pole Evans*, 11663 ; Salisbury (Rh. 1608) Kew ; Trelawney, *Hopkins*.
Chloris pycnothrix Trin., Winkle Spruit, *Pole Evans*, 2389, Kew ; Salisbury (Rh. 2092).
Chloris virgata Swartz, Winkle Spruit, *Pole Evans*, 2400 ; Nelspruit, *Liebenberg*, 26049 ; Marandellas (Rh. 2164) ; Gwanda (Rh. 3508) and *Doidge*, 30295 ; Salisbury, *Hopkins*.
Chloris sp., Mazoe, *v. d. Byl 2240*.

Puccinia Chrysanthemi Roze

Pole Evans (1906 a) 135 ; (1916 a) 640 ; v. d. Byl (1922 d) 285 ; Doidge (1927 a) 53 ; Verwoerd (1929 b) 10, (1931 a) 299 ; Doidge & Bottomley (1931) 19 ; Hopkins (1938 a) 106, (1939 a) 10 ; Nel (1942) 36 ; Cardoso (1944 a) 57, (1945) 161.
on **Chrysanthemum morifolium** Ram., Johannesburg, *Cregor*, 177 ; Barberton, *Laurence*, 500 ; Pretoria, *Pole Evans*, 660, 8920, *Wager*, 21248, *Bottomley*, 25429 ; Port Elizabeth, *Butters*, 2235 ; Durban, *Moon*, 2326, *v. d. Byl 841, 243*, *Rutter* (v. d. Byl 535) 31802 ; Kentani, *Pegler 2400*, 9737 ; Cape Town, *Mally*, 6964 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *v. d. Byl*, and *Verwoerd* (Stell. 23), *Dippenaar* (Stell. 972) ; Wellington, Worcester, Somerset West, Wynberg, Paarl, Caledon, Elgin, *Verwoerd ;* Salisbury, (Rh. 2119) ; Lourenço Marques, *Mota*, 34258 ; Namaacha, *Soares*.

Puccinia Cichorii (DC.) Bell.

Doidge (1927 a) 49.
on **Cichorium Intybus** Linn., Sea Point, *Collins*, 11296 ; Alexandria, *V. E. Smith*, 24903.

Puccinia contecta Syd.

H. Sydow (1924 a) 236 ; Doidge (1927 a) 113 ; Nel (1942) 36.
on **Bulbinella robusta** Kunth., Hopefield, *v. d. Byl 1244*, Type, and *v. d. Byl 1962*.

Puccinia coronata Corda

Doidge (1927 a) 121 : Verwoerd (1929 b) 13, (1931 a) 299 ; Cardoso (1943) 41 (1945) 149.
Puccinia coronifera Kleb., Pole Evans (1906 a) 125, (1907 a) 164, (1911) 96.
Puccinia Lolii Niels, Hopkins (1938 a) 106, (1939 a) 6.
as *Puccinia striaeformis* West., Kalchbrenner (1882 b) 22.
on **Avena sativa** Linn., Skinner's Court, *Pole Evans*, 23, 143, 206, Standerton, *Wyndham* 73, 76, 104 : Potchefstroom, *Burtt Davy*, 1044 ; Durban, *McClean*, 30668 ; Cedara *Fisher*, 118, 1918 ; Lemana, *Pole Evans*, 499 ; Onderstepoort, *Steyn*, 28714 ; Bloemfontein, *Verwoerd ;* Somerset East, *MacOwan 1113 ;* Salisbury, 1649 ; Lowdale (Rh. 265) Kew ; Mazoe, *Hopkins ;* Rhodesia general, *Hopkins ;* Umbeluzi, *Peres Guimarãis*, 34247.
on **Lolium multiflorum** Lam., Mooi River, *Burtt Davy*, 1474 ; Athol nr. Amsterdam, 30440 ; Prinshof, *Codd*, 30674.
Lolium perenne Linn., Potchefstroom, 240.
Poa annua Linn., Stellenbosch, *Verwoerd* (Stell. 190).

Puccinia Cyani (Schleich.) Passer.

Doidge (1927 a) 53 ; Nel (1942) 37.
on **Centaurea Cyanus** Linn., Daspoort, *Pole Evans*, 113 ; Durban, *McClean*, 24898 ; Stellenbosch, *du Plessis* (Stell. 655, v. d. Byl 2710, 2542) ; Northdene, *McClean*, 30940.

Puccinia Cynodontis Desm.

Pole Evans (1906 a) 136 ; Doidge (1927 a) 123 ; Verwoerd (1929 b) 13, (1931 a) 299 ; Nel (1942) 108.
on **Cynodon Dactylon** Pers., Skinner's Court, *Pole Evans*, 22 : Brandfort, Verwoerd (Stell. 241, v. d. Byl 2367) ; Stellenbosch, *Verwoerd ;* Hopevale, *Doidge*.

Puccinia Cyperi-fastigiati Doidge

Doidge (1928) 473.
on **Cyperus fastigiatus** Rottb., Silverton Ridge, *Kresfelder*, 23415.

Puccinia Cyperi-tagetiformis (P. Henn.) Kern
on **Cyperus** sp., Matola, Moçambique, *Cardoso*, 34243.

Puccinia deformans Wint.

Winter (1884 c) 260 ; Sacc. Syll. Fung. VII : 642 ; P. & H. Sydow (1904) 494 ; Doidge (1927 a) 101 ; Nel (1942) 37.
on **Montinia caryophyllacea** Thunb., nr. Cape Town, *MacOwan*, Type (Rabenh. Fung. Eur. 3125) 3464 ; Clovelly, nr. Kalk Bay, *Andraea*, 19857 ; between Kalk Bay and Noordhoek, *Levyns* (v. d. Byl 1452) : Stellenbosch, *Duthie* (v. d. Byl 2043); Caledon, *Verwoerd* (Stell. 257 ; v. d. Byl 2182).

Puccinia dehiscens Syd.

P. & H. Sydow (1904) 597 ; Sacc. Syll. Fung. XVII : 364 ; Doidge (1927 a) 106.
on **Aristea capitata** Ker., Constantia Nek, *Dippenaar* (Stell. 829).
?on **Aristea Schizolaena** Harv., Noodsberg, *Medley Wood 4140* (sub *Puccinia Gladioli* Cast., in Herb. Kew)..
on **Aristea** sp., Muizenberg, *Bolus*, Type ; Sabie, *Pienaar*, 5146 ; Hermanus, *Louwrens*, 29914.
Nivenia corymbosa (Ker.) Bkr., Bain's Kloof, *Doidge*, 966 ; St. James, *Pole Evans*, 5571, Kew.

Puccinia desertorum Syd.

H. & P. Sydow (1910) 259 ; Sacc. Syll. Fung. XXI : 664.
on **Evolvulus alsinoides** Linn., Okahandja, *Dinter*, Type.

Puccinia Dichondrae Mont.

Doidge (1948 b) 901.
Puccinia Duthiei van der Byl (1927) 226 ; Nel (1942) 37.
on **Dichondra repens** Forsk., Belvidere, Knysna, *Duthie* (v. d. Byl 2337) 33335 ; Grahamstown, *Archibald*, 33278 ; Groot Schuur, *Loseby* (Stell. 563).

Puccinia Dieramae Syd.

P. & H. Sydow (1904) 597 ; Sacc. Syll. Fung. XVII : 365 ; Doidge (1927 a) 107 ; Doidge & Bottomley (1931) 29.
on **Dierama pendulum** Bkr., Cape, *Ecklon & Zeyher*, Type.
Dierama sp., Entumeni, *Haygarth*, 14178.

Puccinia dimorpha Syd.

P. & H. Sydow (1904) 227 ; Sacc. Syll. Fung. XVII : 319 ; Doidge (1927 a) 69.
? *Puccinia Rubiae* Kalchbr. & Cooke in Herb.
as *Puccinia Galiorum* Link, Kalchbrenner & Cooke (1880) 21.
on **Rubia cordifolia** Linn., Umgeni Beach, *Doidge*, 2526 ; Kentani, *Pegler 2385*, 9427, Kew.
Rubia petiolaris DC., Boschberg, *MacOwan 1151*, Type (S.A.M. 34007) 20757; Wonderboom, *Pole Evans*, 1494; Hennops River, *Doidge*, 2035, *Pole Evans*, 2272; Maritzburg, *Doidge*, 8251 ; Fountains, *Doidge*, 23340 ; The Thorns, *Mogg*, 26364 ; Donkerpoort, *Doidge & Bottomley*, 29752 ; The Willows, *Doidge & Bottomley*, 29815 ; Pelindaba, *Doidge & Bottomley*, 29932.
Rubia petiolaris var. **heterophylla** Sond., Wonderboom, *Pole Evans*, 1495.

Puccinia Dimorphothecae Pole Evans

Pole Evans (1916 a) 641 ; Doidge (1927 a) 55.
on **Dimorphotheca spectabilis** Schlecht., Garstfontein, *Pienaar*, 1420, 1499, Type, Kew ; Kaalfontein, *Pole Evans*, 9734, 10080, 10985, *Mogg*, 11664 ; Johannesburg, *Watson*, 17103 ; Halfway House, *Steyn*, 23370.
Dimorphotheca Zeyheri Sond., The Willows, *Pole Evans*, 2310.

Puccinia dispersa Erikss. & Henn.

Pole Evans (1911) 96 ; Doidge (1927 a) 133 ; Doidge & Bottomley (1931) 56 ; Hopkins (1938 a) 106, (1939 a) 41 ; Nel (1942) 37.
on **Secale africanum** Stapf, Jakhals Vallei, *Marloth*, 14677 ; Sutherland, *Marloth* (v. d. Byl 2536) ; Prinshof, *Codd*, 32436.

Secale cereale Linn., Pretoria, *Pole Evans*, 254 ; Cedara, *Fisher*, 1917, 2245 ; Koedoespoort, *Pole Evans*, 18078 ; Prinshof, *Mogg & Codd*, 30932 ; Salisbury, *Hopkins* ; Invanga, *Hopkins* ; Lydenburg, *Pons*, 30873 ; Umbeluzi, *Soares*, 34245.

Puccinia Drimiae v. d. Byl

van der Byl (1926 c) 283 ; Doidge (1927 a) 113.

on **Drimia pusilla** Jacq., Stellenbosch, *Duthie* Type, (Stell. 251 ; v. d. Byl 2330) 21004.

Puccinia Eragrostidis-chalcanthae Doidge

Doidge (1939) 499.

on **Eragrostis chalcantha** Trin., Donkerpoort, *Doidge & Bottomley*, 29760, Type.

Puccinia Eragrostidis-superbae Doidge

Doidge (1939) 500.

on **Eragrostis superba** Peyr., Derdepoort, *Doidge & Bottomley*, 29811, Type.

Eragrostis happula Nees var. **divaricata** Stapf, Derdepoort, *Doidge & Bottomley*, 29813.

Puccinia erythraeënsis Pazschke

v. d. Byl (1926 c) 288 ; Doidge (1927 a) 127 ; Doidge & Bottomley (1931) 61, 65 ; Hopkins (1932) 465, (1938 a) 106, (1939 a) 5, 33 ; Nel (1942) 37.

on **Andropogon shirensis** Hochst., Salisbury, *Hopkins*.

Andropogon sp., Derdepoort, *Doidge & Bottomley*, 33930 ; Donkerpoort, *Doidge & Bottomley*, 29992.

Cymbopogon afronardus Stapf, Barberton, *Liebenberg*, 26050.

Cymbopogon excavatus Stapf, Groenkloof, *L. Turner*, 8914 ; Pretoria, *Pole Evans*, 14650 ; Skinner's Court, *Pole Evans*, 1247 ; Nelspruit, *Liebenberg*, 26679 ; Derdepoort, *Doidge & Bottomley*, 29806 ; Debbe's Ravine, *Bottomley*, 29858 ; Ashbury, *Doidge & Bottomley*, 32445 ; Wonderboom, *Bottomley*, 32917.

Cymbopogon marginatus (Steud.) Stapf, Derdepoort, *Doidge & Bottomley*, 29799.

Cymbopogon plurinodis Stapf, Irene, *Pole Evans*, 452 ; Trigaartspoort, *Doidge & Bottomley*, 31009.

Hyparrhenia auctus (Stapf) Stent, Garstfontein, *Pole Evans*, 2220 ; Donkerpoort, *Doidge & Bottomley*, 29759 ; Ashbury, *Doidge & Bottomley*, 29779 ; Derdepoort, *Doidge & Bottomley*, 29808 ; Estcourt, *Pentz*, 31076 ; Fountains Valley, *Watson*, 32916.

Hyparrhenia Buchanani Stapf, Garstfontein, *Pienaar*, 2219 ; Derdepoort, *Doidge & Bottomley*, 29791.

Hyparrhenia cymbaria Stapf, Winter's Kloof, *Doidge*, 2517 ; Cramond, *Pole Evans*, 2411 ; Town Bush Valley, *Pole Evans*, 1447, Kew ; Fairy Glen, *Bottomley*, 23433 ; Skinner's Court, *Wager*, 23442 ; Nelspruit, *Liebenberg*, 25979 ; Umtentwini, *Porter*, 32679 ; Eshowe, *McClean*, 33170.

Hyparrhenia dissoluta (Nees) Hubb., Barberton, *Liebenberg*, 26063 ; Nelspruit, *Liebenberg*, 26671 ; Hartebeestpoort, *Liebenberg*, 29912 ; between Kutue and Sobi, *Baum 778*.

Hyparrhenia filipendula Stapf, Pretorius Kop, Kruger National Park, *Chippindall*, 33149, 33150 ; Empangeni, *McClean*, 35153.

Hyparrhenia filipendula var. **pilosa** Stapf, Donkerpoort, *Doidge & Bottomley*, 29769 ; Schagen, *Liebenberg*, 29915.

Hyparrhenia glauca Stent, Fountains Valley, *Doidge*, 23341 ; Silverton Ridge, *Doidge*, 23437.

Hyparrhenia hirta Stapf, Pretoria, *Pole Evans*, 6682, *Watson*, 32792 ; Fountains, *Doidge*, 23342 ; Ashbury, *Doidge & Bottomley*, 29780 ; Derdepoort, *Doidge & Bottomley*, 29787.

Hyparrhenia Tamba Anderss., The Willows, *Doidge & Bottomley*, 29816 ; Pelindaba, *Doidge & Bottomley*, 29884 ; Trigaartspoort, *Doidge & Bottomley*, 31012 ; Pyramids, *Mogg*, 32431.
Hyparrhenia spp., Pretoria, *Pole Evans*, 1084 ; Tweedie, *Mogg*, 11642 ; Cramond, *Pole Evans*, 2402 ; Muckleneuk, *Doidge*, 2308 ; Groenkloof, *Pentz*, 20471 ; Skinner's Court, *Doidge*, 23438 ; Schagen, *Liebenberg*, 26346 ; Salisbury (Rh. 1627) Kew.
Trachypogon plumosus Nees, Nelspruit, *Liebenberg*, 26030.
Andropogoneae undet., Pyramids, *Mogg*, 25451 ; Tzaneen, *v. d. Byl 1655 ;* Salisbury (Rh. 1870).

Puccini Eucomi Doidge
Doidge (1939) 497 (lapsu calami *P. eucomis*)
on **Andropogon eucomus** Nees, Donkerpoort, *Doidge & Bottomley*, 30129, Type.
Andropogon huillensis Rendl., Donkerpoort, *Doidge & Bottomley*, 30132.

Puccinia Euphorbiae P. Henn.
Nel (1942) 37.
on **Euphorbia tuberosa** Linn., Stellenbosch, *Bosman* (v. d. Byl 1964).

Puccinia Evansii P. Henn.
P. Hennings (1908) 271 ; Sacc. Syll. Fung. XXI : 670 ; Doidge (1927 a) 93 ; Nel (1942) 37.
on **Acalypha angustata** Sond., The Willows, *Pole Evans*, 126, Kew ; Garstfontein, *Pienaar*, 1372, 1457, 2146, 6597, 6653 ; Olifantsfontein, *Pienaar*, 13019 ; Koedoespoort, *Pole Evans*, 1511 ; Pretoria (Syd. Fung. exot. 466) 17316 ; Donkerpoort, *Doidge & Bottomley*, 29727.
Acalypha decumbens Thunb., The Wilderness, *Doidge*, 17126.
Acalypha punctata Meisn., Koedoespoort, *Pole Evans*, 1303 ; Lyttelton, *Collyer*, 12226.
Acalypha spp., Silverton, *v. d. Byl*, 2226 ; Kaalfontein, *Pole Evans*, 9536 ; Scottsburgh, *Pole Evans*, 6826 ; Greytown, *Doidge*, 7820 ; Henley, *Doidge*, 9092 ; New Hanover, *v. d. Byl*, 10092 ; Pretoria, *Pole Evans*, (Syd. Fung. exot. 466) 108, Type, 208, Kew ; Natal Midlands, *v. d. Byl 17 ;* Nottingham Road, *v. d. Byl 585, 586*, 31834, 31835.

Puccinia exanthematica MacOwan
Kalchbrenner (1882 b) 24 ; Sacc. Syll. Fung. VII : 700 ; P. & H. Sydow (1904) 490 ; Doidge (1927 a) 101.
on **Crassula spathulata** Thunb., Boschberg, *MacOwan 1242, 1347*, Type (Rabenh. Fung. Eur. 3209 ; S.A.M. 28756) 3549, Kew.

Puccinia exhauriens Thuem
von Thuemen (1876 b) 425 ; Kalchbrenner (1882 b) 23 ; Sacc. Syll. Fung. VII : 714 ; P. & H. Sydow (1904) 344 ; Doidge (1927 a) 88.
on **Jasminum tortuosum** Willd., Boschberg, *Tuck* (MacOwan 1139 ; Thuem. Myc. univ. 1034 ; Rabenh. Fung. Eur. 2619 ; S.A.M. 28753) 10473, and *MacOwan 1289*, 20796, Kew ; Cape Town, *V. A. Putterill*, 15035.

Puccinia Eylesii Doidge
Doidge (1927 a) 120, 201 ; Hopkins (1938 a) 106, (1939 a) 6 ; Nel (1942) 37.
on **Aristida aequiglumis** Hack., Donkerpoort, *Doidge & Bottomley*, 29745.
Aristida junciformis Trin. & Rupr., Donkerpoort, *Doidge & Bottomley*, 29743.
Aristida scabrivalvis Hack., Springbok Flats, *Mellé*, 20433.
Aristida transvaalensis Henr., Derdepoort, *Doidge & Bottomley*, 29804.
Aristida spp., Springbok Flats, 416 ; Salisbury, *Eyles 2239*, 15516 ; Gwanda, *Doidge*, 30299 ; Salisbury, *Eyles* (v. d. Byl 1972).

Puccinia Fagarae Doidge

Doidge (1927 a) 95, 201 ; Doidge & Bottomley (1931) 33 ; Hopkins (1938 a) 106.
on **Fagara Davyi** Verdoorn, Pirie Forest, *Doidge*, 12274, Type.
Xanthoxylon sp., Hartley, *Eyles* (Rh. 4286).

Puccinia Feliciae (Syd.) Doidge

Doidge (1927 a) 55.
Puccinia capensis Syd., H. & P. Sydow (1918) 240 ; Sacc. Syll. Fung. XXIII : 687 (not Dietel)
on **Aster bakerianus** Burtt Davy, Somerset East, *MacOwan 1468*, Type.

Puccinia fuirenella Doidge

Doidge (1939) 493.
sub *Uredo Fuirenae* P. Henn., Doidge (1927 a) 198.
on **Fuirena chlorocarpa** Ridley, Xumeni Forest, *Morgan & Doidge*, 29823 ; Donkerpoort, *Doidge & Bottomley*, 29983.
Fuirena coerulescens Steud., Maritzburg, *Pole Evans*, 1444.
Fuirena pubescens (Lam.) Kunth., Donkerpoort, *Doidge & Bottomley*, 29977 ; Type ; Nelspruit, *Liebenberg*, 25980, 26074.

Puccinia Galeniae Diet.

P. & H. Sydow (1904) 562 ; Sacc. Syll. Fung. XVII : 361 ; Doidge (1927 a) 103.
on **Galenia africana** Linn., Swakopmund, *Stapf, Klugkist.*
Galenia Sarcophylla Fenzl., Swakopmund, *Stapf, Klugkist.*

Puccinia galerita Doidge

Doidge (1927 a) 79, 201.
on **Hemizygia Pretoriae** (Gürke) Ashby, Kaalfontein, *Pole Evans*, 10988, Type.

Puccinia Galopinae Cooke

Cooke (1882 a) 124 : Sacc. Syll. Fung. VII : 703 ; P. & H. Sydow (1904) 220 ; Doidge (1927 a) 67.
on **Galopina aspera** Sond., Inanda, *Medley Wood 602*, Type, 9551, 10474, 11192, Kew.

Puccinia Gerberae Pole Evans

Pole Evans (1916) 641 ; Doidge (1927 a) 56.
Aecidium crypticum Kalchbrenner & Cooke (1880) 21 : Sacc. Syll. Fung. VII : 800 ; P. & H. Sydow (1924) 41.
on **Gerbera ambigua** Sch. Bip., without locality, *Mogg*, 11657.
Gerbera discolor Sond., Garstfontein, *Pienaar*, 1422 ; Paardeplaats, *Pienaar*, 1531, 107€ ; Kokstad, *Mogg*, 14148 ; Natal, *Medley Wood*, 11191.
Gerbera Kraussii Sch. Bip., Natal, *Medley Wood 632*, 10480, Kew.
Gerbera plantaginea Harv., Garstfontein, *Erasmus*, 1418, 6599, Type, 8912, *Pienaar*, 8887 ; Klapmuts, *v. d. Byl*, 6846 ; Kaalfontein, *Mogg*, 11688.
Gerbera spp., Entumeni, *Haygarth*, 14187 ; Natal, *Medley Wood 66*, 10286, Kew ; Maclear, *Pienaar*, 2182.

Puccinia gerbericola Doidge

Doidge (1927 a) 57, 201.
Gerbera sp., Garstfontein, *Pienaar*, 6661, Type.

Puccinia Gladioli-crassifolii Doidge

Doidge (1927 a) 107, 202, (1948 c) 230; Doidge & Bottomley (1931) 26.
on **Iridaceae** undet., Lyttelton, *Collyer*, 12227, Type.

Puccinia Gnidiae Doidge

Doidge (1939) 490.
on **Gnidia microcephala** Meisn., Kaalfontein, *Pole Evans*, 10083.

Puccinia graminis Pers.

Berkeley (1876 a) 175 ; Pole Evans (1906 a) 125, 134, (1907 a) 163, (1911) 96 ; van der Byl (1922 d) 285 ; Doidge (1927 a) 134 ; Verwoerd (1929 b) 18, 25, 28, (1931 a) 299 ; Doidge & Bottomley (1931) 11, 19, 41, 56, 67 ; Hopkins (1938 a) 106, (1939 a) 6, 16, 23, 46 ; Cardoso (1937) 153, (1939) 45, (1943) 41, (1945) 150 ; Nel (1942) 38.

Uredo linearis Pers., Kalchbrenner (1882 b) 25.

on **Agrostis lachnantha** Nees, Mount Hope, *Galpin*, 20452 ; Oliviershoek Pass, *Doidge*, 29984 ; Garstfontein, *Wager*, 23417.

Arrhenatherum elatius (L.) Mert. & Koch, Stellenbosch, *Verwoerd* (v. d. Byl 2473).

Avena fatua Linn., Malmesbury, Paarl, Cape Town, *Verwoerd*.

Avena sativa Linn., Standerton, *Wyndham*, 73, 386 ; Skinner's Court, *Pole Evans*, 84, 85, 213, 474 ; Potchefstroom, 241, 242 ; Somerset East, *MacOwan 1237*, 20749 ; Stellenbosch, *Verwoerd* (Stell. 151 ; v. d. Byl 1311) ; Malmesbury and Paarl, *Verwoerd ;* Lydenburg, *Pons*, 32381 ; Salisbury (Rh. 2047) ; Hartebeestpoort, *Sellschop*, 30422.

Bromus rigidus Toth., Malmesbury, *Verwoerd*.

Dactylis glomerata Linn., Skinner's Court, *Pole Evans*, 247 ; Salisbury, *Mundy*, 1650 ; Amersfoort, *Robertson*, 24943 ; Stellenbosch, *Verwoerd ;* Prinshof, *Codd*, 30644.

Festuca elatior Linn., Amsterdam, *Buchanan*, 744, 1170.

Hordeum murinum Linn., Orange Free State, *v. d. Merwe*, 906 ; Stellenbosch and Paarl, *Verwoerd*.

Hordeum nodosum Linn., Middelburg, Cape, *Pole Evans*, 288.

Hordeum vulgare Linn., Skinner's Court, 82, 83 ; Potchefstroom, *Burtt Davy*, 1045 ; Prinshof, 21217 ; Stellenbosch, *Verwoerd, v. d. Byl*.

Hordeum sp., Mona (Rh. 1421) ; Hillside (Rh. 3329) ; Cashel (Rh. 3443) ; Rusapi (Rh. 1421) ; Salisbury (Rh. 1650).

Lolium perenne Linn., Piet Retief, *Scholtz*, 27696 ; Athol, nr. Amsterdam, 30441 ; Prinshof, *Codd*, 30675.

Lolium temulentum Linn., Kluitze's Kraal, *Pole Evans*, 211.

Secale cereale Linn., Skinner's Court, 264 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell. 446) ; Elsenburg, *Marais* (Stell. 441).

Triticum aestivum Linn., Skinner's Court, *Pole Evans*, 78, 79, 80, 81 ; Zeerust, *Burtt Davy*, 948 ; Potchefstroom, 954 ; Brits, *Sellschop*, 30417, 30967 ; nr. Lydenburg, Lydenburg, *Pons*, 30418, 32380 ; Bethlehem, *v. d. Merwe*, 1071 ; Orange Free State, 778 ; " Buffel ", Lindley Distr., *Jacot-Guillarmod*, 30419 ; Groenkloof, *L. Turner*, 7371 ; Pretoria, *Pole Evans*, 8911 ; Kingwilliamstown, *Sellschop*, 11799 ; Britstown, 24946; Stellenbosch, *Verwoerd* (Stell. 4) and *v. d. Byl;* George, Malmesbury, Paarl, Tulbagh, *Verwoerd ;* Salisbury, *Mundy*, 1648, *Hopkins*, 23682 ; Gazaland, *Swynnerton*, 10713 ; Rusapi (Rh. 1422) Kew ; Mazoe, Felixburg, Melsetter, Umtali, *Hopkins*, Umbeluzi, *Guimarães ;* Sul do Save, *Cardoso ;* Canicado, *Cardoso ;* Namaacha, *Cardoso ;* Infulene, *Soares*, *Barradas*, 34254 ; Matola, *Soares ;* Marracuene, *Soares*
on grass undet., foot of Table Mt., *Eaton ;* Natal, *Medley Wood 113.*

Puccinia granularis Kalchbr. & Cooke

Kalchbrenner (1882 b) 22 : Sacc. Syll. Fung. VII : 640 : P. & H. Sydow (1904) 470 : van der Byl (1922 d) 285 : Doidge (1927 a) 96 : Verwoerd (1931 a) 299 : Doidge & Bottomley (1931) 26 : Nel (1942) 38 : Cardoso (1943) 53, (1945) 162.

Aecidium Pelargonii Thuem., von Thuemen (1877) 411, (1879) 96 : Sacc. Syll. Fung. VII : 783.

Uredo Pelargonii Thuem., von Thuemen (1878) 355.

Uredo Geranii DC. f. *Pelargonii alchemilloides*, von Thuemen (1876 b) 569.

Puccinia Pelargonii (Thuem.) Syd., P. & H. Sydow (1904) 469 : Nel (1942) 42.

as *Uromyces Geranii* (DC.) Otth. & Wartm., Sacc. Syll. Fung. VII : 535.

on **Pelargonium alchemilloides** (L.) Ait., Somerset East, *MacOwan 1114, 1154*, (Rabenh. Fung. Eur. 3914 : Thuemen Myc. Univ. 955, 1026 : S.A.M. 28735) 4254, 10743, 20704, 20714, 20708, Kew : Maritzburg, *Pole Evans*, 1438 : Stellenbosch, *Loseby* (v. d. Byl 2516), *Verwoerd* (Stell. 253 : v. d. Byl 2197, 2185), *Bosman* (v. d. Byl 2037, 2038).

Pelargonium aconitiphyllum E. & Z., Belfast, *Doidge*, 571 : Inanda, *Medley Wood 10*, Type, *81*, 837, 10323, Kew : Paardeplaats, *Pienaar*, 1075, 1498 : Mooi River, *Walters*, 2075, *Mogg*, 11650, 11794, 11796 : Bulwer, *Lansdell*, 9122 : Durban, *v. d. Byl 162* ; Mooi River, *v. d. Byl 642*, 31871 ; Haenertsburg, *Mogg*, 30449.

Pelargonium amatymbicum E. & Z., Entumeni, *Haygarth*, 14189.

Pelargonium Burtoniae L. Bolus, Pretoria, *K. M. Putterill*, 32657.

Pelargonium cucullatum (L.) Ait., St. James, *Stephens*, 2085, *Pole Evans*, 1981.

Pelargonium hirsutum Ait., var. **melananthum** Harv., Stellenbosch, *Duthie* (v. d. Byl 2352), *Verwoerd* (Stell. 284).

Pelargonium longifolium (Burm. f.) Jacq., Stellenbosch, *Verwoerd* (Stell. 186).

Pelargonium tabulare (L.) L'Herit., Wellington, *Doidge*, 989.

Pelargonium triste (L.) Ait., St. James, *Pole Evans*, 5569 ; Stellenbosch, *Duthie* (v. d. Byl 2476).

Pelargonium spp., Cape Town, *Lounsbury*, 994, 1061 : Lydenburg Distr., *Pole Evans*, 8384 : Eston, *v. d. Byl*, 8371 : Umtata River, *Pegler 2404*, 10126 : Fort Jackson, *Pienaar*, 2172 : Hogsback, *K. M. Putterill*, 30075 : Bloemfontein, *Verwoerd* ; Stellenbosch, *Verwoerd* (Stell. 33) and *v. d. Byl* : Kommetjie, *Dippenaar*, (Stell. 957) ; Moçambique, *Cardoso* ; Lourenco Marques, *Guimarães* ; Chibuto, *Guimarães*, 34242.

Puccinia Helianthi Schw.

Cardoso (1943) 59, (1945) 162 ; Doidge (1948 b) 902.

Helianthus annuus Linn., Unbeluzi, *Soares*, 34246, *Martins* ; Bulawayo, *Hopkins* (Rh. 5988) 34031 : Naboomspruit, 34051 : Buffelspoort, *Redpath*, 34077, *Bottomley*, 34178 ; Pietersburg, *Clarence*, 34165 ; Inyati, *Hopkins* (Rh. 5989).

Puccinia hennopsiana Doidge

Doidge (1927 a) 118, 202.

on **Mariscus congestus** C.B. Cl., Hennops River, *Doidge*, 2038, Type, Kew ; Fairy Glen, *Doidge*, 21226 : Wolwekloof, Garstfontein, *Bottomley*, 29980 : Donkerpoort, *Doidge & Bottomley*, 29972 ; Xumeni Forest, *Doidge*, 29981.

Puccinia heterospora Berk. & Curt.

Sacc. Syll. Fung. VII : 695 : P. Hennings (1903) 156 : P. & H. Sydow (1904) 472 : Doidge (1927 a) 91 : van der Byl (1926 c) 288 : Hopkins (1938 a) 106, (1939 a) 42 ; Nel (1942) 39.

Uromyces Thwaitesii Berk. & Br., Cooke (1879 b) 72 : Kalchbrenner (1882 b) 19.

on **Sida cordifolia** Linn., Umbelusi, *Howard*, 622 ; Lourenço Marques, *Howard*, 675, 676 ; Durban, *Bottomley*, 8243, 12234, *v. d. Byl 893*, 32002 ; Louis Trichardt, *V. A. Putterill*, 11834 ; Westfalia, *Doidge*, 20342 ; Zambesi, *Pocock*, 25989 ; Empangeni, *McClean*, 24896 ; Salisbury, *Eyles 4126*, *6830* (Rh. 2044, 2222 ; v. d. Byl 2323 ; Stell. 275) ; Shamva (Rh. 2594) ; Mazoe (Rh. 2933) ; Longa R., *Baum 572*.
Sida Dregei Burtt Davy, Garstfontein, *Doidge*, 1377, Kew; Groenkloof, *Hean*, 30655.
Sida Hoepfneri Gurke, Habungu, *Baum 485*, Kew.
Sida rhombifolia Linn., Verulam, *Medley Wood 406*, 11113, 11166, 13078; Entumeni, *Haygarth*, 14193 ; Schagen, *Wager*, 26203 ; Nelspruit, *Liebenberg*, 26000 ; Durban, *v. d. Byl 75*.
? on **Hibiscus** sp., Woodbush, *v. d. Byl ;* Tzaneen, *v. d. Byl 1503*.

Puccinia holosericea Cooke

Cooke (1882 a) 126 ; Sacc. Syll. Fung. VII : 717 ; P. Sydow (1899 a) (130) ; P. & H. Sydow (1904) 326 ; Doidge (1927 a) 85 ; Nel (1942) 39.
on **Ipomoea ficifolia** Lindl., Inanda, *Medley Wood 225*, *560*, Type, 10481, 827, 10482, 11159, Kew ; Isipingo, *Doidge*, 6632 ; Durban, *Bottomley*, 8244, *v. d. Byl 16*, *242*, 31969 ; St. Johns, *Pole Evans*, 11658 ; Stella Bush, *Bottomley*, 12233.
Ipomoea Wightii Choisy, Winkle Spruit, *Pole Evans*, 2390, Kew ; Wyebank, *Doidge*, 9086.
Ipomoea spp., Lemana, *Doidge*, 1799 ; Tzaneen, *Doidge*, 20320.

Puccinia Hydrocotyles (Link) Cooke

Cooke (1880 b) 14 ; P. & S. Sydow (1904) 388 ; Doidge (1927 a) 88 ; Nel (1942) 39 ; Cardoso (1945) 164.
on **Hydrocotyle bonariensis** Lam., Amanzimtoti, *Doidge*, 1633 ; Catembe, *Howard*, 512 ; Inanda, *Medley Wood 430*, *450*, Kew.
Hydrocotyle verticillata Thunb., Port Elizabeth, *Pole Evans*, 5189 ; Fountains Valley, *Doidge & Bottomley*, 29819.
Hydrocotyle sp., Durban, *v. d. Byl 161 ;* Fort Beaufort, *Wager*, 30968 ; Congella, *v. d. Byl*, 31934.

Puccinia Hyperici Doidge

Doidge (1927 a) 90, 202.
on **Hypericum Lalandii** Choisy, Garstfontein, *Pienaar*, 7087, Type, Kew.

Puccinia Hypochoeridis Oud.

Pole Evans (1916 a) 644 ; van der Byl (1922 d) 285 ; Doidge (1927 a) 60 ; Nel (1942) 40.
on **Hypochoeris radicata** Linn., Newlands, *Pearson*, 5595 ; Stellenbosch, *v. d. Byl 2045* **a**, *Verwoerd* (Stell. 117) ; Mineral Springs, Klein Drakenstein, *v. d. Byl 2045*.

Puccinia Imperatae Doidge

Doidge (1928) 474.
on **Imperata cylindrica** Beauv. var. **Thunbergii** Hack., Skinner's Court, *Doidge*, 23416, Type ; Buffelspoort, *Doidge & Bottomley*, 32764.

Puccinia inflorescenticola Pole Evans

Pole Evans (1916 a) 646 ; Doidge (1927 a) 64.
on **Vernonia corymbosa** Less., Rosehaugh, *Sim*, 7802, Type.
Vernonia podocoma Sch. Bip., Inyoni Kopje, Glenlivet, *Mogg*, 30281.

Puccinia Ipomoeae-panduratae (Schw.) Syd.

Doidge (1927 a) 83.

on **Ipomoea albivenia** Sweet. Pretoria. *Pole Evans*, 7818 : Bandolier Kop, *Doidge*, 20317. Kew : Pietersburg. *Pienaar*, 7369 : Muden. *Fuller*, 10129 : Smitsdrift, *Mogg*, 34412.

Puccinia Iridis (DC.) Wallr.

Doidge (1939) 490.

on **Iris germanica** Linn., Johannesburg. *Hollis*, 25922 : Pretoria. *Mogg*, 32661.
Iris sp. (regilio-cyclus), Johannesburg. *Hingst*, 30142.

Puccinia Isoglossae Doidge

Doidge (1927 a) 72, 202, (1948 b) 902.

on **Hypoestes verticillaris** R. Br., Claridge, *Doidge*, 9075, Kew.
Hypoestes sp., Winkle Spruit. *Pole Evans*, 2399 : Type.

Puccinia Junci-Oxycarpi Doidge

Doidge (1941 c) 230

Puccinia Junci (Strauss) Wint. var. *africana* Doidge (1927 a) 116.
?sub *Uromyces Junci* (Desm.) Tul., Kalchbrenner (1882 b) 20.

on **Juncus lomatophyllus** Spreng., Kentani, *Pegler 2362*, 9121, 9166, Kew.
Juncus oxycarpus E. Mey., Hennop's River, *Doidge*, 2039 : Fairy Glen, *Mogg*, 23088 : Garstfontein, *Wager*, 23436 : Derdepoort, *Doidge & Bottomley*, 29794.
? on **Juncus punctorius** Linn. f., Klein Vis Rivier, *MacOwan 1315*, Kew. (uredo only, teleutospores not seen).
on **Juncus** sp., Donkerpoort, *Doidge & Bottomley*, 31008.

Puccinia Kalchbrenneri de Toni

Saccardo Syll. Fung. VII : 645 : P. & H. Sydow (1904) 93 : Pole Evans (1916 a) 641 ; Doidge (1927 a) 57.

Puccinia Helichrysi Kalchbrenner & Cooke (1880) 21 (not Rabenhorst).
Uredo Lepisclinis Thuem., von Thuemen (1877) 410.
Uromyces Urginea Kalchbrenner (1882 b) 21 : Sacc. Syll. Fung. VII : 549.

on **Helichrysum capitellatum** (Thunb.) Less., Gordon's Bay, *Loseby* (Stell. 949).
Helichrysum nudifolium (Linn.) Less., Boschberg, *MacOwan 1239* (Thuem. Myc. univ. 1644 ; S.A.M. 28730) 20767, Kew.
Helichrysum nudifolium var. **leiopodium** (DC.) Moeser, Belfast, 554 : Paardeplaats, *Pienaar*, 1491 : Olifantsfontein, *Pienaar*, 12824 ; Fairy Glen, *Bottomley*, 23432 : Silverton Ridge, *Doidge*, 23440.
Helichrysum nudifolium var. **quinquenerve** (Thunb.) Moeser, Barberton, *Pole Evans*, 1158, 1580, *Liebenberg*, 26021 : Eshowe, *Pole Evans*, 2026 : Entumeni, *Haygarth*, 14170 : Haenertsburg, *K. M. Puttevill*, 32752 : Piesanghoek, *Watson*, 29862 ; Inanda, *Medley Wood 55*, 32025, Kew.
Helichrysum pannosum DC., Natal, *Medley Wood 633*, 10479, Kew.
Helichrysum undatum Less., Cape, *MacOwan 1433*, Kew.

Var. **valida** Doidge

Doidge (1927 a) 58.

on **Helichrysum coriaceum** Sond., Garstfontein, *Erasmus*, 1430, 2082, 9052, *Pienaar*, 12823 ; Kokstad, *Pole Evans*, 11661.

Helichrysum nudifolium (Linn.) Less. var. **leiopodium** (DC.) Moeser, Pretoria, *Doidge*, 683 ; Garstfontein, *Pienaar*, 1269, 1421 ; Debbe's Ravine, *Bottomley*, 32891.
Helichrysum sp., Lydenburg, *Pienaar*, 1072, 1492.

Puccinia Kalchbrenneriana de Toni

Sacc. Syll Fung. VII : 661 ; P. & H. Sydow (1904) 628 ; Doidge (1927 a) 115.
Puccinia Ornithogali Kalchbr., Kalchbrenner & Cooke (1880) 21.
Puccinia Urgines Kalchbr. in herb.
Aecidium Ornithogali Kalchbr. in Herb.
on **Urginea altissima** Bkr., Boschberg, *MacOwan 1140*, Type (S.A.M. 28752), 20748, Kew, ex Herb. Kalchbr. ; Alicedale, *Cruden*, 12180.

Puccinia kentaniensis Pole Evans

Pole Evans (1918 c) 110 ; Doidge (1927 a) 95 ; Doidge & Bottomley (1931) 67.
on **Vepris lanceolata** Don., Kentani, *Pegler 1960*, 8793, 8841, Type.

Puccinia Koedoeënsis Doidge

Doidge (1927 a) 63, 200.
on **Vernonia monocephala** Harv., Koedoespoort, *Pole Evans*, 9686, Type, Kew; Kaalfontein, Type, Kew ; Kaalfontein, *Mogg*, 11652 ; Olifantsfontein, *Pienaar*, 13018 ; Paardeplaats, *Pienaar*, 1501.

Puccinia Kraussiana Cooke

Cooke (1882 a) 126 ; Sacc. Syll. Fung. VII : 657 ; P. & H. Sydow (1904) 636 ; Doidge (1927 a) 114 ; van der Byl (1926 c) 288 ; Nel (1942) 40.
on **Smilax Kraussiana** Meisn., Inanda, *Medley Wood 611*, Type, 10483, 11155, Kew, and *Medley Wood 100*, Kew ; Stella Bush, *Doidge*, 1609 ; Winkle Spruit, *Pole Evans*, 2397, *Doidge*, 2502 ; Isipingo, *Doidge*, 6631, Kew ; Woodbush, *Doidge*, 21026, *v. d. Byl 1540, 1541 ;* Eshowe, *v. d. Byl 241.*

Puccinia Krookii P. Henn.

P. Hennings (1900 a) 1 ; Sacc. Syll. Fung. XVI : 277 ; P. & H. Sydow (1904) 426.; Doidge (1927 a) 89, (1948 b) 903.
on **Epilobium flavescens** E. Mey., Harrismith, *Krook* (Pl. Penther. 2206) Type.
Epilobium hirsutum Linn., nr. Silverton, *Doidge*, 1523 ; Rietfontein, *Doidge*, 2307 ; Kentani, *Pegler 2395*, 9530, Kew : Silverton, *Doidge*, 23435 ; Pyramids, *Mogg*, 32434.

Puccinia Kuhnii (Krüg.) Butler

Doidge (1941 c) 230.
on **Saccharum officinarum** Linn., becoming common on variety Co. 301, Natal Coast, *McMartin.*
Saccharum spontaneum Linn., Mt. Edgecombe, *McMartin*, 30752.

Puccinia kyllingicola Doidge

Doidge (1939) 494.
on **Kyllinga melanosperma** Nees, Donkerpoort, *Doidge & Bottomley*, 29971, Type : Karino, *Wager*, 23414.

Puccinia lemanensis Doidge

Doidge (1927 a) 95, 202
on **Toddalia asiatica** Lam., Lemana, *Pole Evans*, 497, *Doidge*, 1795, Type, Kew.

Puccinia leonotidicola P. Henn.

P. Hennings (1903) 157 ; P. & H. Sydow (1904) 280 ; Sacc. Syll. Fung. XVII : 328 ; Doidge (1927 a) 76 ; van der Byl (1926 c) 288 ; Cardoso (1945) 163.

Aecidium Leonotidis P. Hennings (1895 c) 52

as *Trichobasis labiatarum* Lév., Medley Wood (1898) 14.

Puccinia Menthae Pers. forma *Leonotidis* Kalchbrenner (1882 b) 22.

on **Leonotis dysophylla** Benth., Lourenço Marques, *Howard*, 707 ; Garstfontein, *Doidge*, 1375 ; New Agatha, *Doidge*, 1819, Kew.

Leonotis leonitis R. Br., Natal, *Medley Wood 578*, 11151, 10620, Kew ; Somerset East, *MacOwan 1330*, Kew.

Leonotis leonurus R. Br., Winkle Spruit, *Doidge*, 2508.

Leonotis nepetifolia (Linn.) R. Br., Longa R., *Baum 826*, Kew.

Leonotis sp., Schagen, *Liebenberg*, 30956.

Puccinia le Testui Maubl.

Maublanc (1906) 71 ; Sacc. Syll. Fung. XXI : 641 ; Doidge (1948b)903

on **Vernonia** sp. (sect. Decaneuron) Marromeu, *Le Testu*.

Vernonia glabra Vatke, Rusapi (Rh. 4096) 33425.

Puccinia Leucadis Syd.

P. & H. Sydow (1904) 281 ; Sacc. Syll. Fung. XVII : 329 ; Doidge (1927 a) 76 ; Hopkins (1938 a) 106, (1939 a) 24.

Uredo Leucadis P. Sydow (1899 a) (132) ; Sacc. Syll. Fung. XVI : 361 ; Nel (1942) 49.

? as *Trichobasis labiatarum* Lév., Cooke (1879 b) 71.

on **Leucas martinicensis** R. Br., Malvern, *Doidge*, 883 ; Garstfontein, *Pienaar*, 1211, 6598, 6660, 8915 ; Groenkloof, *Pole Evans*, 9093 ; Ashburton, *Doidge*, 9701 ; Acton Homes, *Bottomley*, 14161 ; Maritzburg, *Doidge*, 23211 ; nr. Durban, *Medley Wood ;* Entumeni, *Haygarth*, 14192 ; Kentani, *Pegler 1942*, 7810, Kew : Piesanghoek, *Bosman*, 24352 ; Natal, *Medley Wood 5*, Type, Kew ; Durban, *v. d. Byl 56 ;* Schoonord, Sekukuniland, *Barnard*, 30911 ; Salisbury, (Rh. 2156).

Leucas glabrata R. Br., Table Mt., Natal, *Fuller*, 1640, Kew.

Puccinia Liebenbergii Doidge

Doidge (1939) 490.

on **Sonchus** sp., Schagen, *Liebenberg*, 26176, Type.

Puccinia Lindaviana P. Henn.

P. Hennings (1895 a) 12 ; Sacc. Syll. Fung. XI : 194 ; P. & H. Sydow (1904) 342 ; Doidge (1927 a) 87.

on **Strychnos Henningsii** Gilg., Pondoland, *Bachmann ;* Paddock, 8370 ; Kentani, *Pegler 1951*, 8394.

Puccinia lippiivora Syd.

Doidge (1927 a) 83, (1948 b) 904.

Puccinia natalensis Diet. & Syd. var. *Evansii* Doidge (1927 a) 82.

on **Lippia asperifolia** Rich., Inanda, *Medley Wood 538*, 10504, 11161 ; Barberton, *Pole Evans*, 1157, 1859, Kew, *Lansdell*, 11665 ; Letaba Drift, *Doidge*, 1817 ; Entumeni, *Haygarth*, 14191 ; Cramond, *Pole Evans*, 2407 ; White River, *V. A. Putterill*, 23229 ; Tzaneen, *Liebenberg*, 30957.

Lippia sp., Barberton, *Pole Evans*, 1850 ; Duivelskloof, *Doidge*, 1816

Puccinia luandensis Syd.

P. & H. Sydow (1904) 287 ; Sacc. Syll. Fung. XVII : 330 ; Doidge (1927 a) 79.
Uredo Plectranthi Kalchbr. in Herb.
on **Plectranthus** sp., Inanda, *Medley Wood*, Type.

Puccinia luxuriosa Syd.

Doidge (1939) 502
on **Sporobolus capensis** (Willd.) Kunth, Donkerpoort, *Doidge & Bottomley*, 29758.
Sporobolus pectinatus Hack., Donkerpoort, *Doidge & Bottomley*, 29726.

Puccinia Lycii Kalchbr.

Kalchbrenner (1882 b) 21 ; Sacc. Syll. Fung. VII : 651 ; Magnus (1898) (91) ; P. & H. Sydow (1904) 265 ; Doidge (1927 a) 74.
Puccinia pulla Kalchbr. in Herb.
on **Lycium tubulosum** Nees, Somerset East, *MacOwan 1410*, Type (Rabenh. Fung. Eur. 3122) 3461, Kew ; nr. Cookhouse Drift, Groot Vis R. *MacOwan* (S.A.M.).
Lycium austrinum Miers, Amanzi, *Pole Evans*, 9783.
Lycium hirsutum Dun., Bloemfontein, *Pole Evans*, 1169, 5168, *v. d. Merwe*, 1496.
Lycium oxycladum Miers, Smitskraal, *Pole Evans*, 1913.
Lycium sp., Grahamstown, *Hansford*, 33485.

Puccinia MacOwani Wint.

Winter (1885 a) 255 ; Sacc. Syll. Fung. VII : 674 ; P. & H. Sydow (1904) 93 ; Pole Evans (1916 a) 642 ; Doidge (1927 a) 59.
Aecidium truncatum Kalchbr., nom. nud., in Herb. Kew and S.A.M. ; Sacc. Syll. Fung. VII : 674.
on **Helichrysum petiolatum** DC., Boschberg, *MacOwan*, Type (Rabenh. Fung. Eur. 3211, 3212 ; ? S.A.M. 28732) 3551, 3552, 20719, 20715, Kew.

Puccinia Magnusiana Koern.

P. & H. Sydow (1904) 785 ; Doidge (1927 a) 129 ; Nel (1942) 40 ; Cardoso (1945) 163.
on **Phragmites communis** Trin., Natal, *Medley Wood 444*, 10022, 10466 ; Fort Beaufort, 292 ; Koster River, 468 ; Garstfontein, *Pienaar*, 1254 ; nr. Dordrecht, *Pienaar*, 2005 ; Tweespruit, *v. d. Merwe*, 8961 ; Bloemfontein, *Potts*, 11304 ; Mazelspoort, *Talbot*, 35136 ; Klip River, *Doidge*, 14165 ; Lakeside, *Thomson*, 14652 ; Silverton Ridge, *Bottomley*, 23445 ; Skinner's Court, *Wager*, 23441, *Doidge*, 23434 ; Somerset East, *MacOwan 1027* (S.A.M. 28761) 20725, Kew ; Umhlanga, *Medley Wood 624*, 794, 10476, Kew ; Elim, *Bosman*, 26105 ; Derdepoort, *Doidge & Bottomley*, 29810 ; Nottingham Road, *McClean*, 31078, 32286 ; Hopefield, *v. d. Byl 2695 ;* Moçambique, *Cardoso ;* Infuleni, *Guimarães*, 34239.

Puccinia Malvacearum Mont.

von Thuemen (1875) 379, (1878 a) 355 ; Kalchbrenner (1882 b) 24 ; Sacc. Syll. Fung. VII : 686 ; P. & H. Sydow (1904) 476 ; Pole Evans (1906 a) 137 ; van der Byl (1922 d) 285 ; Doidge (1927 a) 92 ; Verwoerd (1929 b) 14, (1931 a) 299 ; Doidge & Bottomley (1931) 30 ; Hopkins (1938 a) 106, (1939 a) 4 ; Nel (1942) 41.
on **Althaea rosea** Cav., Somerset East, *MacOwan 1117* (S.A.M. 28757) ; Pretoria, 18 *Gower*, 17077 ; Skinner's Court, *Pienaar*, 1652 ; Groenkloof, *Sellschop*, 9432 ; Johannesburg, *Fuchs*, 382 ; Sterkfontein, *Pienaar*, 2090 ; Natal, *Medley Wood 455*, 10487.

Bloemfontein, *Potts*, 21937 ; Tayside, *de Jager*, 25494 ; Onderstepoort, *Steyn*, 27287 ; Bloemfontein, *Verwoerd* ; Stellenbosch, *Brain* (Stell. 262 ; v. d. Byl 2210) and *Verwoerd* ; Paarl, Wellington, Somerset West, Wynberg, *Verwoerd* ; Salisbury, *Hopkins*, (Rh. 1596).

Malva parviflora Linn., Kentani, *Pegler*, 2000 ; Uniondale, *Pienaar*, 2419 ; Somerset East, *MacOwan 1135* (Thuem. Myc. Univ. 1723) 20756, 20760, Kew ; Port Elizabeth, *V. A. Putterill*, 28526 ; Stellenbosch, *v. d. Byl 244*, *Verwoerd* (Stell. 76) ; Klapmuts, *v. d. Byl 896*.

Malva rotundifolia Linn., Natal, *Medley Wood 440*, 10485 ; Cape, *MacOwan 1117*, Kew ; Skinner's Court, 397 ; Pretoria, *Bottomley*, 19846 ; Cedara, *Gill*, 23487.

Malvastrum grossulariaefolium Gray & Harv., Ventersdorp, *Pienaar*, 1064.

Puccinia Maydis Bereng.

von Thuemen (1876 b) 569 ; Kalchbrenner (1882 b) 22 ; Maublanc (1906) 71 ; van der Byl (1922 d) 285 ; Pole Evans (1906 a) 125, 135, (1910 b) 194, (1911 b) 260 ; M. Pole Evans (1923 b) 1-8 ; Doidge (1927 a) 136 ; Verwoerd (1929 b) 16, (1931 a) 299 ; Doidge & Bottomley (1931) 36, 57 ; Hopkins (1938 a) 106, (1939 a) 50 ; Cardoso (1937) 153, (1938) 75, (1939) 45, (1943) 45, (1945) 149.

Puccinia Zeae Bereng., Nel (1942) 45.

Puccinia Sorghi Schw., Sacc. Syll. Fung. VII : 659.

on **Oxalis corniculata** Linn., Somerset East, *MacOwan 1295* (S.A.M. 28736) ; Skinner's Court, *Pole Evans*, 1004, *Doidge*, 1926 ; Pretoria, *Pole Evans* 1846.

Zea Mays Linn., Somerset East, *MacOwan, 1410, 1257* ; Inanda, *Medley Wood 669*, 10591, Kew ; Catembe, *Howard*, 627 ; Vereeniging, *Burtt Davy*, 950, 952 ; Volksrust *Burtt Davy*, 951 ; Amersfoort, *Burtt Davy*, 953 ; Stellenbosch, *Pole Evans*, 1050, *Verwoerd* (Stell. 166). *Brain* (v. d. Byl 1431), *v. d. Byl 487* ; Rhodesia, *Mundy*, 891 ; Skinner's Court, *Pole Evans*, 60, 62, 1191 ; Maritzburg, *Pole Evans*, 1384 ; Kentani, *Pegler 1854*, 2138, Kew ; Maclear, *Pienaar*, 2224 ; Potchefstroom, *v. d. Byl*, 2324 ; Buffelspoort, *Doidge & Bottomley*, 32762 ; Bloemfontein, *Potts*, 11312, and *Verwoerd* ; Kliptown, *Thomas*, 17022 ; Pretoria, *Doidge*, 17070 ; Groenkloof, 18088 ; Grahamstown, *Mally*, 21993 ; Wellington, *Lounsbury*, 250 ; South West Africa, *Le Testu* ; Salisbury, *v. d. Byl 2055* ; Rhodesia, general, *Hopkins* ; Umbeluzi, *Guimarães* ; Maciana, *Guimarães* ; Manhica, *Guimarães*, 34238.

Euchlaena mexicana Schrad., Groenkloof, *L. Turner*, 7805.

Puccinia McCleanii Doidge

Doidge (1941 c) 231.

on **Gladiolus Ludwigii** Pappe, Nottingham Road, *McClean*, 30996, Type.

Puccinia Menthae Pers.

von Thuemen (1876 a) 425 ; Kalchbrenner (1882 b) 22 ; Sacc. Syll. Fung. VII : 617 ; P. & H. Sydow (1904) 282 ; Doidge (1927 a) 77.

on **Mentha aquatica** Linn., Pretoria, *Pole Evans*, 6850.

Mentha longifolia Huds. subsp. **capensis** Briq., Natal, *Medley Wood 112, 466*, 10488 ; Somerset East, *MacOwan 1150* (Thuem. Myc. Univ. 442 ; S.A.M. 28754) 20758, 20722, Kew ; near Tweespruit, *v. d. Merwe*, 8962 ; Dordrecht, *Pienaar*, 2017.

Mentha viridis Linn., Pretoria, *Pole Evans*, 2495, 6680.

Puccinia Mesembryanthemi MacOwan

MacOwan (1880) 89 ; Cooke (1892) 109 ; Sacc. Syll. Fung. XI : 186 ; P. & H. Sydow (1904) 562 ; Doidge (1927 a) 103 ; Doidge & Bottomley (1931) 38.

on **Psilocaulon parviflorum** (Jacq.) L. Bolus, Graaff-Reinet, *Tuck*, Type (MacOwan 1441 ; Medley Wood 437) 10489 ; Cape Town, *E. L. Stephens*, 5623 ; Fort Hare, *Giffen*, 34506.

Psilocaulon granulicaule (Haw.) N.E.Br., Orange River Railway Station, *Pole Evans*, 7356 ; Kimberley, *Moran* (Syd. Fung. exot. 157) 5126, 17882, Kew.

Delosperma herbeum N.E.Br., Johannesburg, *Knox Davies*, 14842 (Aecidium only).

Delosperma sp., Kokstad, *Mogg*, 11640 (Aecidium only).

Puccinia Miscanthidii Doidge

Doidge (1939) 500.

on **Miscanthidium capense** Stapf, Tabamhlope, *Pentz*, 30927 ; Nottingham Road, *McClean*, 32306.

Miscanthidium junceum Stapf, Trigaartspoort, *Doidge & Bottomley*, 30105.

Miscanthidium Sorghum (Nees) Stapf, Lundie's Hill, *Doidge*, 30104, Type.

Puccinia Monsoniae (Syd.) Doidge

Doidge (1927 a) 96, 203 ; Nel (1942) 41.

Uredo Monsoniae Syd., H. & P. Sydow (1912 a) 34 ; P. & H. Sydow (1924) 467 ; Sacc. Syll. Fung. XXIII : 928.

on **Monsonia attenuata** Harv., Ermelo, *Burtt Davy*, 65.

Monsonia biflora DC., Lyttelton, *Erasmus*, 1518 ; The Thorns, *Doidge*, 1521, Type, Kew ; Koedoespoort, *Pearson*, 1619 ; Hennops River, *Pole Evans*, 2260 ; Silverton, *Pole Evans* 8925 ; Wonderboom, *Pole Evans*, 8974 ; Donkerpoort, *Doidge & Bottomley*, 29733.

Monsonia brevirostrata R. Knuth, Vrede, *v. d. Merwe*, 32017.

Monsonia sp., Vrede, *v. d. Merwe* (v. d. Byl 565).

Puccinia Moraeae P. Henn.

P. Hennings (1895 a) 12 ; Sacc. Syll. Fung. XI : 196 ; P. & H. Sydow (1904) 600 ; Doidge (1927 a) 108 ; Doidge & Bottomley (1931) 64.

Puccinia melanida Syd., H. Sydow (1924 a) 235 ; Nel (1942) 41.

on ? **Moraea edulis** Ker., nr. Cape Town, *MacOwan* (Rabh. Fung. Eur. 3204 as *Puccinia Allii*) 3544, 20711.

Homeria Breyniana (Linn.) Lewis, Stellenbosch, *Verwoerd* (Stell. 99), *Dippenaar* (Stell. 955, v. d. Byl 1182, 1251) ; Ceres, *Dippenaar* (Stell. 535 ; v. d. Byl 2594).

Homeria pallida Bkr., Rooidraai, Lydenburg Distr., 692 ; Ermelo, 12461 ; Davel, *Bennett*, 12460, Kew ; Alberton, G.V.O., 20601.

Homeria sp., Cape Town, *Marloth*, 17784 ; Roggeveld, *Skaife*, 10855 ; Hopefield, *v. d. Byl 2025*.

Puccinia Morganae Doidge

Doidge (1939) 493.

?sub *Puccinia caricina* DC., Kalchbrenner (1882 b) 22.

on **Cyperus albostriatus** Schrad., Xumeni Forest, *Morgan & Doidge*, 29985, Type ; ? Boschberg, *MacOwan 1018* (S.A.M. 28728).

Puccinia Myrsiphylli (Thuem.) Wint.

Winter (1884 c) 261 ; P. Sydow (1899 a) (130) ; Sacc. Syll. Fung. VII : 614 ; P. & H. Sydow (1904) 626 ; Doidge (1927 a) 111 ; Doidge & Bottomley, (1931) 16.

Uredo Myrsiphylli Thuem., von Thuemen (1877) 410 ; Kalchbrenner (1882 b) 25.

Aecidium Myrsiphylli Kalchbrenner (1882 b) 25.

on **Asperagus asparagoides** (Linn.) Druce, Noodsberg, *Medley Wood 219*, (no. 209 fide Kalchbr.) 832, 10592 ; Boschberg, *MacOwan 1280*, Type (S.A.M. 34212) Kew ; Harden Heights, *Fuller*, 1590 ; Durban, *McClean*, 31029.

Puccinia natalensis Diet. & Syd.

P. Sydow (1899 a) ; Sacc. Syll. Fung. XVI : 301 ; P. & H. Sydow (1904) 306 ; Doidge (1927 a) 82.

on **Lantana salvifolia** Jacq., Umzinyati, *Medley Wood 71*, 11160, 10490 ; Inanda, *Medley Wood 85*, 10515 ; Zululand, *Medley Wood*, 357, 836 ; Malvern, *Doidge*, 884, Kew.

Puccinia oahuensis Ell. & Everh.

Cummins (1943) 524.

Puccinia Digitariae Pole Evans (1918 c) 111 ; Doidge (1927 a) 124, (1939) 499 ; Doidge & Bottomley (1931) 24 ; Hopkins (1938 a) 106, (1939 a) 18 ; Nel (1942) 37 ; Cardoso (1943) 59, (1945) 163.

Uredo digitariaecola Thuem. in Myc. Univ. no. 2041 (1882) ; P. & H. Sydow (1924) 604.

on **Digitaria decumbens** Stent, Athol near Amsterdam, 30438.
Digitaria debilis Willd., Kentani, *Pegler 1879*, 2372, 8881, Kew.
Digitaria eriantha Steud., Cedara, Staples, (Stell. 34, v. d. Byl 1112) 17082 ; Wharncliffe, *Pienaar*, 2175, Kew ; Prinshof, *Bottomley*, 23518-25323, *Pentz*, 30905 ; Buffelspoort, *Doidge*, 25787 ; Debbe's Ravine, *Mogg*, 30906.
Digitaria horizontalis Willd., Nelspruit, *Liebenberg*, 26649.
Digitaria Pentzii Stent, Donkerpoort, *Doidge & Bottomley*, 29750 ; Ashbury, *Doidge & Bottomley*, 29783.
Digitaria setivalva Stent, Salisbury, *Hopkins* (Rh. 2002, 2071) 30152.
Digitaria Smutsii Stent, Groenkloof, *Pentz*, 20470 ; Skinner's Court, *Doidge*, 23439.
Digitaria spp., Skinner's Court, *Pole Evans*, 129, 1192 ; Hartebeestpoort, *Liebenberg*, 29913 ; Infuleni, *Soares*.

Puccinia Ocimi Doidge

Doidge (1927 a) 78, 203.

as *Aecidium Menthae* DC., Nel (1942) 30.

on **Ocimum americanum** Linn., Zilikats Nek, *Doidge*, 12244, Type, 12245.
Ocimum suave Willd., Durban, *Medley Wood*, 786, 11201, Kew, *v. d. Byl 72*, 12335 ; Winkle Spruit, *Pole Evans*, 1595, 2021 ; Wonderboom, *Pole Evans*, 9730, Kew ; Schagen, *Liebenberg*, 30953.

Puccinia oedipus Cooke

Cooke (1882 a) 126 : Sacc. Syll. Fung. VII : 608 ; P. & H. Sydow (1904) 143 ; Pole Evans (1916 a) 645 ; Doidge (1927 a) 62.

on **Senecio pandurifolius** Harv., Inanda, *Medley Wood 561*, 369, 10491.
Senecio sp., Ceres, *Verwoerd* (Stell. 657 ; v. d. Byl 2696).

Puccinia Oenotherae Vize

Doidge (1927 a) 90.

on **Oenothera** sp., Wellington, *Doidge*, 984, 2065 ; Newlands, *Saxton*, 5578, Kew ; Bloemfontein, *Potts*, 11305.

Puccinia Ornithogali-thyrsoides Diet.

Pazschke (1905) (178) ; Sacc. Syll. Fung. XXI : 671 ; Doidge (1927 a) 114 ; Verwoerd (1929 b) 10 ; Doidge & Bottomley (1931) 18 ; Hopkins (1938 a) 106, (1939 a) 30.

sub *Puccinia Kalchbrenneriana* de Toni, Nel (1942) 40.

sub *Puccinia Ornithogali* Kalchbr., Nel (1942) 42.

on **Ornithogalum aureum** Curt., Stellenbosch, *Dippenaar* (Stell. 533) ; Tulbagh, *Dippenaar* (Stell. 963).

Ornithogalum pilosum Linn. f., Stellenbosch, *Verwoerd* (Stell. 268).

Ornithogalum thyrsoides Jacq., Cape, *MacOwan*, Type (Rabenh. Fung. Eur. 4423) Kew ; Cape Town, *Pole Evans*, 7079, 9790, Kew ; Cango Valley, *Doidge*, 10893 ; nr. Cape Town, *Eastham*, 20357 ; Stellenbosch, *Verwoerd* (Stell. 74 ; v. d. Byl 2196), *v. d. Byl 892, 2203 ;* Paarl, Cape Town, Oudtshoorn, *Verwoerd ;* Hopefield, *Schroeder* (v. d. Byl 1052) ; Tulbagh, *Dippenaar*, (Stell. 964, v. d. Byl 1253) ; Fishhoek, *Marloth*, 33449 ; Hermanus, *Dippenaar*, (Stell. 1028) ; Salisbury (Rh. 2781).

Ornithogalum virens Lindl., Natal, *v. d. Byl 20*, 32481.

Puccinia Othonnae Doidge

Doidge (1927 a) 61, 203.

on **Othonna natalensis** Sch. Bip., Olifantsfontein, *Pienaar*, 13052, Type, Kew ; Roodepoort, *Pole Evans*, 14184, Kew.

Puccinia Pachycarpi Kalchbr. & Cooke

Kalchbrenner (1882 b) 23 ; Sacc. Syll. Fung. VII : 654 ; P. & H. Sydow (1904) 332 ; Doidge (1927 a) 85.

on **Asclepias albens** Schlecht., Inanda, *Medley Wood 36*, 10493, 13080, Kew.

Pachycarpus grandiflorus E. Mey., van Stadens Berg, *MacOwan 1327*, Type (S.A.M. 28759).

Puccinia pallens Syd.

H. & P. Sydow (1903) 19 ; P. & H. Sydow (1904) 876 ; Doidge (1927 a) 79.

Puccinia pallida Massee (1901 b) 168 ; Sacc. Syll. Fung. XVII : 330. (not Tracy).

on **Orthosiphon** sp., Van Reenen, *Medley Wood 5701*, Type, Kew.

Puccinia Pegleriana Doidge

Doidge (1939) 492 ; Cardoso (1943) 57, (1945) 163.

Puccinia Cyperi-tagetiformis (P. Henn.) Kern var. *africana* Doidge (1927 a) 116.

on **Cyperus** spp., Winkel Spruit, *Pole Evans*, 2033 ; Umbelusi, *Howard*, 636 and *Guimarães ;* Kentani, *Pegler 1926*, 7403, 7744, Kew ; Pienaars River, *Doidge & Bottomley*, 29901 ; Matola, *Cardoso ;* Town Bush Valley, *Pole Evans*, 1443.

Puccinia Pelargonii-zonalis Doidge

Doidge (1927 a) 98, 203 ; Doidge & Bottomley (1931) 26 ; Hopkins (1938 a) 106, (1939 a) 3 ; Nel (1942) 42 ; Cardoso (1943) 54.

? *Uredo Geranii* (DC.) f. *Pelargonii-zonalis* Thuem. von Thuemen [1876 b) 426.

? as *Uromyces Geranii* (DC.) Otth. & Wart., Kalchbrenner (1882 b) 19.

on **Pelargonium hortorum** Bailey, Somerset East, *MacOwan 1114* (S.A.M. 33967) : Cape Town, *Saxton* (S.A.M. 28760) ; Pretoria, *Pole Evans*, 111, 128, 216, 6681, 6848, *Davis*, 402, *Hean*, 30980 ; Cape, *Lounsbury*, 209 ; Alice, 1931 : Umtata, *Pienaar*, 2222 ; Maritzburg, *Stayner*, 6823 ; Scottsburgh, *Pole Evans*, 6843, Type ; Cradock, *Leller*,

7370 ; Kentani, *Pegler 1946*, 8349, 8380, Kew ; Cango Valley, *Doidge*, 10896 ; Johannesburg, *Fuchs*, 183 : Melville Nurseries, Johannesburg, 31290 ; Mooi River, *Mogg*, 11795 ; Port Elizabeth, *K. M. Putterill*, 28533 : Amsterdam, *Naude*, 31283 ; Fairydene, Natal, *v. d. Byl 532*, 31800 ; Durban, *McClean*, 32289 ; Salisbury, *Eyles 5022* (Rh. 503) Kew ; Umtali, (Rh. 3452) ; Elsenburg, *v. d. Byl 81 ;* Moçambique, Lourenço Marques, *Andrade* and *Guimarães*.

Puccinia Penniseti Zimm.

Hopkins (1938 a) 106, (1939 a) 31 ; Nel (1942) 42.

on **Pennisetum spicatum** (L.) Koern., Trelawney (Rh. 3323).

Pennisetum typhoides Stapf & Hubb., Krantzkloof, *Haygarth* (v. d. Byl 389) Kew.

Puccinia pentactina Doidge

Doidge (1928) 473.

on **Senecio pentactinus** Klatt, Garstfontein, *Mogg*, 23418, Type.

Puccinia Pentanisiae Cooke

Cooke (1882 a) 125 ; Sacc. Syll. Fung. VII : 645 ; P. Sydow (1899 a) (131) ; P. & H. Sydow (1904) 224 ; Doidge (1927 a) 68 ; Nel (1942) 43.

on **Pentanisia prunelloides** (Klotzsch ex E. & Z.) O. Ktze., Inanda, *Medley Wood 536, 567*, Type, *596*, 831, 10494, 10495, 10496, Kew ; Witbank, *Walters*, 1195 ; Garstfontein, *Pienaar*, 1488, Kew : Kaalfontein, *Pole Evans*, 9541 : Olifantsfontein, *Pienaar*, 13017 ; Henley nr. Maritzburg, *Doidge*, 9091 ; New Hanover, *v. d. Byl*, 10117 ; Donkerpoort, *Doidge & Bottomley*, 29731 ; Nottingham Road, *v. d. Byl 77*.

Var. **Pentagynae** P. Henn.

P. Hennings (1903) 157 ; Sacc. Syll. Fung. XVII : 317.

on **Pentanisia pentagyne** K. Schum., Kubango R., *Baum 908*, Type, Kew.

Puccinia Phragmitis (Schum.) Koern.

Kalchbrenner (1882 b) 22 ; Sacc. Syll. Fung. VII : 630 ; P. & H. Sydow (1904) 787 ; P. Hennings (1908) 271 : Doidge (1927 a) 130 ; van der Byl (1922 d) 285 ; Doidge & Bottomley (1931) 55 ; Nel (1942) 43.

Aecidium rubellum Gmel., Doidge & Bottomley (1931) 55 ; Hopkins (1938 a) 105, (1939 a) 41.

Aecidium Rumicis Hoffm. f. *Rumicis Eckloniana* Thuem., von Thuemen (1878 a) 355 ; Kalchbrenner (1882 b) 25.

on **Rheum rhaponticum** Linn., Rosetta, *Fuller*, 428 : Ermelo, *Burtt Davy*, 749, 937, Kew ; Grootfontein, *Gill*, 18101 ; Hankey, *Ross*, 26368.

? on **Rumex acetosella** Linn., Stellenbosch, *Verwoerd* (Stell. 105).

on **Rumex conglomeratus** Murr., Bulwer, *Lansdell*, 9125.

Rumex Ecklonianus Meisn., Somerset East, *MacOwan 1308*, (Thuem. Myc. Univ. 1322 ; S.A.M. 28742) 20720, 20736, Kew ; Koedoespoort, *Pole Evans*, 748 ; Potchefstroom, *Pole Evans*, 197.

Rumex nepalensis Spreng., Kentani, *Pegler 2369*, 9168 ; Lowdale (Rh. 261) ; Mazoe, *Eyles* (v. d. Byl 2522).

Rumex spp., Skinner's Court, 697 ; Vereeniging, *Burtt Davy*, 7097 ; Wellington, *Bottomley*, 1500, 1579 : Hopefield, *v. d. Byl 1264 ;* Tulbagh, *Duthie* (Stell. 627, 947).

Phragmites communis Trin., Klein Visch Rivier, *MacOwan 1316* (S.A.M.) Kew : Umhlanga, *Medley Wood 624*, Kew ; Wakkerstroom, *Burtt Davy*, 418 ; Quelimane, *Howard*, 646 ; Witbank, *Walters*, 1199 ; Pretoria, *Pole Evans*, 1588 : Wolhuter's Kop, *Maynard*, 8386 : Durban, *Pole Evans*, 1439, *v. d. Byl 19 ;* Reunion, *v. d. Byl 773*, 31953 ; Stellenbosch, *v. d. Byl ;* Elsenburg, *Verwoerd* (Stell. 205 ; v. d. Byl 2474).

Puccinia Phyllocladiae Cooke

Cooke (1882 a) 125 ; Sacc. Syll. Fung. VII : 733 ; P. & H. Sydow (1904) 612 ; Doidge (1927 a) 111 ; Verwoerd (1929 b) 7 ; Verwoerd & Dippenaar, (1930 a) 326 ; Doidge & Bottomley (1931) 68 ; Nel (1942) 43.

on **Asparagus falcatus** Linn., Inanda, *Medley Wood 630*, 830, 9809, 10497, 11158, Kew ; Winkle Spruit, *Pole Evans*, 1977, 2022, 2395, Kew, *Doidge*, 2503 ; Kentani, *Pegler 1962*, 8792 ; Eshowe, *Laughton*, 33513 ; Kloof, *Wager*, 33198.

Asparagus sarmentosus Linn., Somerset Strand, *Loseby ;* Stellenbosch, *Verwoerd ;* Gordon's Bay, *Loseby* (v. d. Byl 2607), *Verwoerd* (Stell. 379).

Puccinia Pienarii Pole Evans

Pole Evans (1916 a) 643 ; Doidge (1927 a) 60.

on **Helichrysum acutatum** DC., Natal, 10980.

Helichrysum sp., Paardeplaats, *Pienaar*, 1489, Type.

Puccinia Plectranthi Thuem.

von Thuemen (1875) 378 ; Cooke (1882 a) 126 ; Kalchbrenner (1882 b) 23 ; Sacc Syll. Fung. VII : 672 ; P. & H. Sydow (1904) 286 ; Doidge (1927 a) 80.

on **Plectranthus laxiflorus** Benth., Boschberg, *MacOwan 1136, 1289* (S.A.M. 28758) 20739, Kew ; Somerset East, *MacOwan 1006*, Type (Thuem. Myc. Univ. 632; Roum. Fungi Sel. Exsicc. 4513) 20762, Kew ; Natal, *Medley Wood 1, 5 ;* Howick, *Franks*, 6688 ; Kentani, *Pegler 1937*, 7762, 7821, Kew.

Plectranthus sp., Puff Adder Hill, *Medley Wood 3496*, 326, Kew ; Inanda, Medley Wood 505, 618, 10498, Kew.

Puccinia Poarum Niels

Verwoerd (1929 b) 13 ; Doidge & Bottomley (1931) 65.

on **Poa annua** Linn., Stellenbosch, *Verwoerd* (Stell. 381).

Puccinia Pogonarthriae (Syd.) Hopkins

Hopkins (1938 a) 106, (1939 a) 34 ; Doidge (1939) 501.

Uredo Pogonarthriae Syd., H. & P. Sydow (1912 a) 35 ; P. & H. Sydow (1924) 545 ; Doidge (1927 a) 198 ; Sacc. Syll. Fung. XXIII : 934.

on **Pogonarthria squarrosa** (Licht.) Pilg., Marandellas, *Rattray* (Rh. 2163), 30112 ; Donkerpoort, *Doidge & Bottomley*, 29757 ; Skinner's Court, *Pole Evans*, 228 ; Marico, *O'Connor*, 12230 ; Nelspruit, *Liebenberg*, 26028 ; Umvukwes and Umtali, *Hopkins*.

Puccinia Pole-Evansii Doidge

Doidge (1927 a) 109, 203 ; Doidge & Bottomley (1931) 30.

on **Hypoxis acuminata** Bkr., Gramond, *Pole Evans*, 2408, Kew.

Hypoxis argentea Harv., Rhebok Kop, Rosendal, *Goossens*, 28817.

Hypoxis costata Bkr., Kaalfontein, *Pole Evans*, 10983 ; Lyttelton, *Collyer*, 12228.

Hypoxis Gerrardi Bkr., Hopevale, *Doidge*, 33519.

Hypoxis rigidula Bkr., Garstfontein, *Pienaar*, 1257 ; The Willows, *Pole Evans*, 2332 ; Kaalfontein, *Pole Evans*, 10084, 10984, Type ; Donkerpoort, *Doidge & Bottomley*, 29740 ; Nottingham Road, *v. d. Byl*, 30946.

Hypoxis spp., Paardeplaats, *Pienaar*, 1502 ; Pretoria, *Murray*, 6614 ; Krugersdorp, *Pole Evans*, 9094 ; Mooi River, *Mogg*, 10070, 10071 ; nr. Mont aux Sources, *Doidge*, 14160 ; Tabamhlope, *Pentz*, 30926.

Puccinia polycampta Syd.

H. Sydow (1924 a) 236 ; Doidge (1927 a) 110 ; Verwoerd & Dippenaar (1930 a) 328 ; Nel (1942) 43.

on **Anthericum ciliatum** Linn. f., Hopefield, *v. d. Byl 2482.*

Anthericum hispidum Linn., Stellenbosch, *Verwoerd* (Stell. 252), *Dippenaar*, (Stell. 965), *Duthie* (v. d. Byl 2188).

Anthericum longipedunculatum Steud., Stellenbosch, *Verwoerd* (Stell. 263).

Anthericum revolutum Linn., Hopefield, *v. d. Byl 2358.*

Anthericum spp., Stellenbosch, *Verwoerd*, Type (Stell. 116 : v. d. Byl 1260) ; Langbaan, *v. d. Byl 1270.*

Puccinia Polygoni-amphibii Pers.

Doidge (1927 a) 104.

on **Polygonum tomentosum** Willd., Garstfontein, *Pienaar*, 1374 ; nr. Dordrecht, *Pienaar*, 2004 ; Uniondale, *Pienaar*, 2431 ; Debbe's Ravine, *Bottomley*, 32890.

Puccinia Popowiae Cooke

Cooke (1882 a) 126 ; Sacc. Syll. Fung. VII : 619 ; P. & H. Sydow (1904) 579 ; H. Sydow (1922 a) 57 ; Doidge (1927 a) 101.

on **Popowia caffra** (Sond.) Hk. f. & Thoms, Inanda, *Medley Wood 614*, Type, 10499, Kew ; Winter's Kloof, *Doidge*, 12433 ; Isipingo, *Wager*, 32415.

Puccinia Pottsii Doidge

Doidge (1927 a) 118.

on **Cyperus usitatus** Burch., Bloemfontein, *Potts*, 11310, Type, Kew.

Puccinia pretoriensis Doidge

Doidge (1927 a) 69.

on **Pentanisia prunelloides** (Klotzsch ex E. & Z.) O. Ktze., Garstfontein, *Pienaar*, 6663, Type, Kew.

Puccinia Printziae Thuem.

von Thuemen (1878 b). no. 742 ; Sacc. Syll. Fung. VII : 704 ; P. & H. Sydow (1904) 137 ; Pole Evans (1916 a) 644 ; Doidge (1927 a) 62.

on **Printzia Huttoni** Harv., Somerset East, *MacOwan 1278*, Type (Thuem. Myc. Univ. 742 ; S.A.M. 28751) 8846, Kew ; Natal, *Medley Wood 442*, 10500.

Puccinia Pruni-spinosae Pers.

P. & H. Sydow (1904) 484 ; Doidge (1927 a) 99 ; van der Byl (1926 c) 288 ; Doidge & Bottomley (1931) 5, 9, 41, 48, 51 ; Verwoerd (1931 a) 299 ; Hopkins (1938 a) 107, (1939 a) 35, 36 ; Cardoso (1937) 153, (1939) 44, (1943) 49, (1945) 153.

Uromyces microsorus Kalchbrenner & Cooke, Kalchbrenner (1882 b) 18 ; Sacc. Syll. Fung. VII : 558.

Uromyces Prunorum Link var. *Amygdali* Kalchbrenner (1882 b) 19.

Tranzschelia punctata (Pers.) Arth., Verwoerd (1929 b) 5, 6, 17, 20, 22, 24 ; van der Byl (1922 d) 285 ; Nel (1942) 44.

on **Prunus Armeniaca** Linn., Pretoria, 399, *Bottomley*, 17091 ; Wellington, 1051 ; Graaff-Reinet, *Pienaar*, 5593 ; Addo, *Clutton*, 23646 ; Clanwilliam, *v. Zyl*, 24900 ; Mamathes, *Hean*, 30959 ; Rosslyn, *Malan*, 30966 ; Bloemfontein, *Verwoerd* ; Stellenbosch, *v. d. Byl*, and *Verwoerd* (Stell. 11) ; Elgin, George, Paarl, Wellington, Worcester,

Verwoerd ; Bembesi, *Hopkins ;* Penhalonga, (Rh. 4) ; Banket (Rh. 2321) ; Salisbury (Rh. 1661).

Prunus communis Fritsch, Potgietersrust, *Gilbertson*, 17054 ; Grahamstown, *Tidmarsh*, 20764 ; Bloemfontein, *Verwoerd*; Stellenbosch, *v. d. Byl* and *Verwoerd ;* Somerset West and Paarl, *Verwoerd ;* Elgin, *Lupton* (Stell. 333).

Prunus persica Sieb. & Zucc., Haenertsberg, 106 ; Piesanghoek, *Bosman*, 29871 ; Robertson, 279 ; Fort Beaufort, 290, 321 ; Pretoria, *Pole Evans*, 432, 7800, *Burtt Davy*, 469, *v. d. Byl* 2322, *Bottomley*, 17090 ; Somerset East, *MacOwan 1104* (Thuem. Mye. Univ. 439 ; S.A.M. 28763) 20724, Kew ; Bazuja, *Baur* (MacOwan 656) ; Cedara, *Staples*, 15433 ; Durban, *McClean*, 30942 ; Grahamstown, *Mally*, Kew ; Kentani, *Pegler 1873*, Kew ; Stellenbosch, *v. d. Byl 2764 ;* Natal, *Medley Wood 7*, 13079, Kew ; Cape Town, *Pearson*, 2140 ; Stellenbosch, *du Plessis* (Stell. 874) ; *Verwoerd* (Stell. 21) ; Umgeni, *v. d. Byl*, 31771 ; Caledon, Robertson, Worcester, Elgin, Somerset West, Cape Peninsula, Frenchhoek, Paarl, Wellington, *Verwoerd ;* Boons, *Wessels*, 33569 ; Chibia, *Baum 995 ;* Salisbury, *Eyles 2110*, 14007, *Hopkins* (Rh. 1636) Kew ; Rusape, Bembesi, Concession, Hatfield, Marandellas, Banket, *Hopkins ;* Marracuene, *Howard* 976 ; Sul do Save, *Cardoso ;* Umpala, *Cardoso ;* Lourenço Marques, *Meirim, Guimarãis*, 34244 ; Umbelusi, Xinavane, Infuleni, *Guimarãis*.

Prunus persica var. **nucipersica** Schneid., Elsenburg, *Pole Evans*, 1 a ; Pretoria, *Bottomley*, 17089 ; Stellenbosch, Wynberg, *Verwoerd*.

Prunus salicina Lindl., and hybrids, Pretoria, *Bottomley* 17088 ; Elsenburg, *Pole Evans*, 1 ; Lake Chrissie, 1250 ; Bethal, 1290 ; Queenstown, *Pienaar*, 2234 ; Grahamstown, *Gowie*, 2378 ; Stellenbosch, *Verwoerd* (Stell. 10) ; Paarl, Wellington, Elgin, Groot and Klein Drakenstein, Frenchhoek, *Verwoerd*.

Puccinia punctata Link.

Doidge (1927 a) 67.

on **Galium capense** Thunb., Bloemfontein, *Potts*, 9757.

Puccinia purpurea Cooke

Cooke (1879 b) 71 ; Sacc. Syll. Fung. VII : 657 ; P. & H. Sydow (1904) 803 ; Doidge (1927 a) 131 : Hopkins (1930) 526 ; Doidge & Bottomley (1931) 31, 59 ; Cardoso (1943) 46.

on **Sorghum caffrorum** Beauv., Natal. *Medley Wood 229*, 10501, Kew (host as *Zea Mays* L.); Maritzburg, *Pole Evans*, 1386 ; Chai Chai, *Guimarãis*.

Sorghum sudanense Stapf, Rietondale, *Liebenberg*, 29911 ; Rhodesia, *Hopkins ;* Natal, *v. d. Byl*, 32479.

Sorghum verticilliflorum Stapf, Umbelusi, *Howard*, 672 ; Winkle Spruit, *Pole Evans*, 1599, 2386 ; Verulam, *Pole Evans*, 6803 ; Esperanza, *v. d. Merwe*, 10089 ; Durban, *v. d. Byl* 10090, 10091 ; Wolhuter's Kop, *Doidge & Bottomley*, 30914 ; Mt. Edgecombe, *Halse*, 30114.

Sorghum virgatum (Hack) Stapf, Durban, *v. d. Byl 160*.

Sorghum sp., Moçambique, *Cardoso*.

Puccinia ranulipes Doidge

Doidge (1927 a) 112, 204 ; Doidge & Bottomley (1931) 68.

on **Asparagus laricinus** Burch., Leeuwdoorns, *Burtt Davy*, 928, 1840 ; Ventersdorp, *Mitchell*, 1889 ; Hennops River, *Pole Evans*, 2271, Kew ; Bloemfontein, *Pole Evans*, 2441 ; Pretoria, *Doidge*, 6925, Type ; Hartebeestpoort, *Young*, 21025 ; Wonderboom, *Doidge & Bottomley*, 28735.

Puccinia Rottboelliae Syd.

P. & H. Sydow (1904) 800 ; Doidge (1927 a) 125 ; Hopkins (1938 a) 107, (1943) 185 ; Nel (1942) 45.

Dicaeoma Rottboelliae Syd., H. Sydow (1922 b) 118.

on **Hemarthria altissima** (Poir.) Stapf & Hubb., Bulawayo, *Rogers*, 2239 ; Hennops River, *Doidge*, 2034, Kew ; Derdepoort, *Doidge & Bottomley*, 33931 ; Salisbury, *Hopkins*.

Rottboellia compressa Linn. f., Tzaneen, *v. d. Byl 1647 ;* Cedara, *v. d. Byl 1114*, *Staples* (Stell. 35).

Rottboellia exaltata Linn. f., Lomagundi, *Eyles 3211*, Kew.

?on **Hyparrhenia Newtonii** Stapf, Bromley, (Rh. 1589).

Puccinia rufipes Diet.

Doidge (1927 a) 128 ; Hopkins (1938 a) 107.

on **Imperata cylindrica** Beauv., Winkle Spruit, *Pole Evans*, 2401, *Doidge*, 2516 ; Skinner's Court, *Doidge*, 23419 ; Durban, *McClean*, 32290 ; Salisbury, *Eyles 5017 ;* Felixton, *v. d. Byl*, 31904 ; Schagen, *Liebenberg*, 26077

Imperata cylindrica var **Koenigii** Dur. & Schw., Pelindaba, *Doidge & Bottomley*, 29931.

Imperata cylindrica var. **Thunbergii** Hack., Skinner's Court, 23416 ; Nelspruit, *Liebenberg*, 25976 ; Derdepoort, *Doidge & Bottomley*, 29809, 33932.

Puccinia Salviae Unger

Kalchbrenner (1882 b) 23.

as *Puccinia Glechomatis* DC., Sacc. Syll. Fung. VII : 688.

on **Salvia** sp., Natal, *Medley Wood 27*.

Puccinia Salviae-runcinatae Doidge

Doidge (1927 a) 81, 204.

on **Salvia runcinata** Linn. f., Skinner's Court, *Pole Evans*, 1008, 1062 ; Holfontein, *Pienaar*, 1053.

Puccinia Satyrii Syd.

P. & H. Sydow (1904) 594 ; Sacc. Syll. Fung. XVII : 363 ; Doidge (1927 a) 106.

on **Satyrium carneum** R. Br., near False Bay, *MacOwan*, Type (Rabenh. Fung. Eur. 3614) 3954, Kew.

Satyrium neglectum Schlecht., Kokstad, *McLoughlin*, 12819.

Puccinia Schlechteri P. Henn.

P. Hennings (1895 b) 326 ; Sacc. Syll. Fung. XIV : 331 ; P. & H. Sydow (1904) 329 ; Doidge (1927 a) 86.

on **Pachycarpus Schinzianus** N.E.Br., near Heidelberg, Transvaal, *Schlechter*.

Puccinia Schoenoxiphii Doidge

Doidge (1939) 495 (lapsu calami *P. Schoenoxyphii*)

on **Schoenoxiphium spartium** (Wahl.) Kuk., Xumeni Forest, *Morgan & Doidge*, 30106, Type, 34236.

Puccinia Scleriae-Dregeanae, Doidge

Doidge (1939) 495.

on **Scleria Dregeana** Kunth., Donkerpoort, *Doidge & Bottomley*, 29982.

Puccinia stellenboschiana v. d. Byl

van der Byl (1928 b) 186 ; Nel (1942) 46.

on **Ianthe aquatica** (L.f.) Fourc., Stellenbosch, *Duthie* (v. d. Byl 2488).
Ianthe flaccida Nel, Stellenbosch, *Duthie* (v. d. Byl 2475).
Pauridia hypoxidoides Harv., Stellenbosch, *Duthie* (v. d. Byl 2458).

Puccinia Stoboeae MacOwan

Kalchbrenner (1882 b) 23 ; Sacc. Syll. Fung. VII : 615 ; P. & H. Sydow (1904) 158 ; Pole Evans (1916 a) 638 ; Doidge (1927 a) 51.
Aecidium Berkheyae P. Henn. & Evans, P. Hennings (1908) 372 ; P. & H. Sydow (1924) 28.
Puccinia cryptica Cooke (1892) 108 ; Sacc. Syll. Fung. XI : 190.

on **Berkheya latifolia** Wood & Evans, Pretoria, *Pole Evans*, 204 ; Irene, *Pole Evans*, 539 ; Koedoespoort, *Pole Evans*, 747 ; Garstfontein, *Pienaar*, 1437, 1948, 2148, 6659, Kew ; Debbe's Ravine, *Bottomley*, 25331, *Reinecke*, 29851 ; Skinner's Court, *Bottomley*, 23443 ; Fairy Glen, *Bottomley*, 23431.
Berkheya (Stoboea insignis Harv.) Barberton, *Pole Evans*, 1155, 1855 ; Lemana, *Doidge*, 1814.
Berkheya Kuntzei O. Hoffm., Aliwal North, *Pienaar*, 2006.
Berkheya (Stoboea membranifolia DC.) Natal, *Medley Wood 62, 67, 74, 80, 438*, 10506, 10507, 10508, Kew.
Berkheya speciosa O. Hoffm., Somerset East, *MacOwan 1309*, Type, Kew.
Berkheya spp., Inanda, *Medley Wood 63, 616, 651*, 10310, 10311, 10505 ; Garstfontein, *Pienaar*, 1424, 2185 ; Estcourt, *Pole Evans*, 5145 ; Wakkerstroom, *Kretzschmar*, 14195 ; Mont aux Sources, *Doidge*, 14197 ; Pretoria, *Thomson*, 14241 ; Rustenburg, *Alteproxel*, 222, Kew.

Var. **Woodii** Syd.

P. & H. Sydow (1904) 160 ; Sacc. Syll. Fung. XVII : 294 ; Pole Evans (1916 a) 639 ; Doidge (1927 a) 52.
Aecidium Stoboeae Kalchbr. & Cooke, Cooke (1879 b) 70 ; Sacc. Syll. Fung. VII : 800 ; Nel (1942) 30.

on **Berkheya seminivea** Harv. & Sond., Umgeni, *Doidge*, 905, 2413 ; Eshowe, *Pole Evans*, 2028 ; Durban, *v. d. Byl 114*.
Berkheya setifera DC., Zululand, *Haygarth*, 14186 ; Inanda, *Medley Wood 66*, Kew.
Berkheya umbellata DC., Town Bush Valley, *Pole Evans* 1446, Kew ; Winter's Kloof, *Doidge*, 2518 ; Eshowe, *Pole Evans*, 2023.
Berkheya (Stoboea epitrachys DC.) without locality, 14680.
Berkheya spp., Prieska, *Bryant 552*, Kew ; Durban, *McClean*, 32298.

Puccinia Stonemanniae Syd. & Evans

H. & P. Sydow (1912 c) 437 ; Sacc. Syll. Fung. XXIII : 773 ; Doidge (1927 a) 104.
Aecidium Osyridicarpi Massee (1911) 225 ; Sacc. Syll. Fung. XXIII : 910.
Puccinia pulvinata Massee (1911) 224, (not Rabenhorst).
Puccinia Osyridicarpi Grove (1916) 76 ; Sacc. Syll. Fung. XXIII : 773.

on **Osyridicarpos natalensis** A.DC., Tabamhlope, *Medley Wood 10527*, 810, 818, Kew ; Kentani, *Pegler 1944*, 8350, 8351, 8790 ; Msikaba R., Lusikisiki, *Miller*, 17040.
Thesium hystrix A. W. Hill,. Kimberley, 5127 ; Koffiefontein, *Schultz*, 9534 ; Koffiefontein, *Henrici*, 33988.
Thesium impeditum A. W. Hill, Zwartfontein, Vryburg Distr., *Burtt Davy*, 2358.

Thesium strictum Berg., Wellington, *Stoneman*, 1057 ; Bain's Kloof, *Stoneman*, 2230, *Doidge*, Type (Syd. Fung. exot. 14) 1220, 2058, 5207, Kew ; Stellenbosch, *Verwoerd* (Stell. 380).
Thesium triflorum Thunb., Tafelberg, *Gadd*, 28323.
Thesium spp., Brandfontein, Bredasdorp Distr., *C. A. Smith*, 22840 ; Cango Valley, *Doidge*, 10894.

Puccinia Tabernaemontanae Berk. & Br.

H. Sydow (1922 a) 59 ; P. & H. Sydow (1924) 320 ; Doidge (1927 a) 87.
Puccinia Cookei de Toni, Sacc. Syll. Fung. VII : 615.
Puccinia tabernaemontanae Cooke (1882 a) 125.
on **Conopharyngia ventricosa** Stapf, Inanda, *Medley Wood 612*, *469*, 10510, 10312, 10313, 13085, Kew ; Eshowe, *Pole Evans*, 2024, *Laughton*, 33515.

Puccinia tandaaiënsis Hopkins

Hopkins (1938 a) 107, (1939 a) 45.
on **Thunbergia lancifolia** T. Anders., Tandaai Pass, Cashel, *Hopkins* (Rh. 3449), 30119.

Puccinia Tetragoniae McAlp. var. **austro africana** Doidge

Doidge (1948 b) 904.
as *Puccinia Tetragoniae*, McAlp., Verwoerd & du Plessis (1931) 294 ; Doidge & Bottomley, (1931) 41.
on **Tetragonia expansa** Thunb., Stellenbosch, *Verwoerd* (Stell. 369) ; Wellington, *Verwoerd* (Stell. 471) ; Wynberg, Paarl, Caledon, *Verwoerd ;* Pietersburg, *Palte*, 34091, 34170.

Puccinia Thunbergiae Cooke

Cooke (1882 a) 125 ; Sacc. Syll. Fung. VII : 615 ; P. Sydow (1899 a) (131) ; Doidge (1927 a) 72.
Aecidium Thunbergiae Cooke (1882 a) 125 ; Nel (1942) 30.
on **Thunbergia atriplicifolia** E. Mey., Woodbush, *Webber*, 20318.
Thunbergia natalensis Hk., Inanda, *Medley Wood 468*, *576*, 348, 10511, 11203, 10314, Kew ; Maritzburg, *Pole Evans*, 1416 ; *v. d. Byl 121*, 31984.

Puccinia torosa Thuem.

von Thuemen (1880) no. 1725 ; Ludwig (1892) 131, 133 ; Sacc. Syll. Fung. XI : 203 ; P. & H. Sydow (1904) 793 ; Doidge (1927 a) 121 ; van der Byl (1928 a) 183 ; Nel (1942) 46.
on **Arundo Donax** Linn., nr. Somerset East, *MacOwan*, Type (Thuem. Myc. Univ. 1725 ; Roum. Fung. Sel. Exsicc. 4022) 20765, Kew ; Aliwal North, *Pienaar*, 2354, Kew ; Lynedoch, *Verwoerd* (Stell. 370) and *Nyenhuis ;* Stellenbosch, *Nyenhuis* (v. d. Byl 2472) ; Vlottenberg, *Verwoerd* (v. d. Byl 2589) ; Banhoek, *Dippenaar* (Stell. 959) ; Elsenburg, *Dippenaar* (Stell. 958, a, b).

Puccinia tosta Arthur

Doidge (1928) 474.
on **Sporobolus capensis** (Willd.) Kunth, Donkerpoort, *Doidge & Bottomley*, 29739.
Sporobolus fimbriatus Nees, Fountains Valley, *Doidge*, 23343 ; Ashbury, *Doidge & Bottomley*, 29784 ; Estcourt, *Pentz*, 30970, 30975, 30976.
Sporobolus fimbriatus var. **latifolius** Stent, Estcourt, *West*, 29973.

Puccinia Tragiae Cooke

Cooke (1882 a) 125 ; Sacc. Syll. Fung. VII : 676 ; P. & H. Sydow (1904) 458 ; Doidge (1927 a) 94.

on **Tragia rupestris** Sond., Meintjies Kop, *L. W. Doidge*, 24914.

Tragia spp., Inanda, *Medley Wood 163, 141, 628, 629, 631*, 353, 811, 10315, 10512, 11157, Kew ; Greytown, *Medley Wood*, 820 ; Isipingo, *Doidge*, 6644 ; Krantzkloof, *Doidge*, 9083 ; Lemana, *Doidge*, 1798 ; Kentani, *Pegler 2306*, 8949, Kew ; Kidd's Beach, *Schaefer*, 33909.

Puccinia transvaalensis Doidge

Doidge (1927 a) 118, 205.

on **Cyperus** sp., Belfast, *Doidge*, 570, Type.

Puccinia Tristachyae Doidge

Doidge (1927 a) 132, 205, (1939) 503.

Aecidium decipiens Syd., P. & H. Sydow (1924) 223 ; M. Pole Evans (1923 a) 128 ; Sacc. Syll. Fung. XXIII : 901.

on **Sphenostylis angustifolia** Sond., Meintjies Kop, *Burtt Davy*, 715 ; Heidelberg, *Leendertz*, 457 ; Pretoria, *Burtt Davy*, 988, 6580 ; Garstfontein, *Pienaar*, (Syd. Fung. exot. exsicc. 27) 1945, 1989, 5220, Kew ; Kaalfontein, *Pole Evans*, 11025, 14244 ; Groenkloof, *Pole Evans*, 12837 ; West Fort, *Pole Evans*, 18082 ; Muckleneuk, *v. Nouhuys*, 22841.

Sphenostylis erecta Hutch., Goromonzi, (Rh. 4258).

Tristachya hispida (Thunb.) Harv., Rhebok-kop, Rosendal, *Goossens*, 28818 ; Donkerpoort, *Doidge & Bottomley*, 30133.

Tristachya Rehmanni Hack., Kaalfontein, *Pole Evans*, 10039, Type, 12842, Kew and *Mogg*, 11655.

Puccinia triticina Erikss.

Pole Evans (1906 a) 125, (1907 a) 163, (1911) 96 ; Doidge & Bottomley (1931) 67 ; Verwoerd (1937) 648 ; Hopkins (1938 a) 107, (1939 a) 46 ; Cardoso (1937) 154, (1938) 75, (1939) 45.

Puccinia rubigo-vera (DC.) Wint. f. sp. *Tritici* Erikss. & Henn., Cardoso (1943) 46, (1945) 150.

on **Aegilops cylindrica** Host., Prinshof, *Liebenberg*, 28539, 28599.

Triticum aestivum Linn., Skinner's Court, 29, 61 ; Salisbury, *Mundy*, 1651 ; Cedara, *Fisher*, 1916 ; Nottingham Road, *McClean*, 32295 ; Groenkloof, *Melle*, 9189 ; Prinshof, *Richards*, 21218, *Pentz*, 20614 ; Lydenburg, *Verwoerd ;* Mazoe, Salisbury, Eldorado, Concession, Beatrice, *Hopkins ;* Lowdale, *Hopkins* (Rh. 257) Kew ; Sul do Save, *Cardoso ;* Umbeluzi, *Guimarães ;* Lourenço Marques, *Mota ;* Caniçado, *Barradas*, 34253 ; Ribàué, *Róncon ;* Namaacha, *Cardoso ;* Matola, *Soares ;* Infuleni, *Soares ;* Marracuene, *Soares*.

Triticum Timopheeni Zhuk (hybrid), Potchefstroom, *Saunders*, 31291.

Puccinia Vangueriae Doidge

Doidge (1927 a) 70, 205.

on **Pachystigma Pygmaeum** (Schlecht.) Robyns, Kaalfontein, *Pole Evans*, 9437, 10042, Kew, and *Mogg*, 11656 ; Olifantsfontein, *Pienaar*, 12817.

Puccinia Vernoniae Cooke.

Cooke (1882 a) 126, not Schw. ; Sacc. Syll. Fung. VII : 653 ; P. & H. Sydow (1904) 178.
? *Trichobasis Vernoniae* Cooke, Medley Wood (1898) 14.
on **Vernonia hirsuta** Sch. Bip., Natal, *Medley Wood 622*, Kew.
Vernonia sp., Natal, *Medley Wood 546*, *584*, *626*, Kew.
Doubtful species.

Puccinia vernoniicola P. Henn.

Pole Evans (1916 a) 646 ; Doidge (1927 a) 64.
on **Vernonia angulifolia** DC., Table Mt., Natal, *Fuller*, 1618 ; Winkle Spruit, *Doidge*, 2498 ; Natal, *Medley Wood 3204*, 10514, Kew.

Puccinia versicolor Diet. & Holw.

Doidge (1927 a) 126 ; Hopkins (1938 a) 107, (1939 a) 5, 22 ; Doidge & Bottomley (1931) 55, 57.
on **Andropogon gayanus** Kunth, Salisbury, (Rh. 1896).
Andropogon gayanus var. **squamulatus** Stapf, Salisbury, *Hopkins*.
Heteropogon contortus R. & S., Skinner's Court, *Pole Evans*, 1047 ; Garsfontein. *Pienaar*, 1264 ; Nelspruit, *Liebenberg*, 26031 ; Buffelspoort, *Doidge*, 27584 : Donkerpoort, *Doidge & Bottomley*, 29734 ; Matopos (Rh. 1287) ; Salisbury (Rh. 1989) Kew.
Heteropogon melanocarpus Benth., Bulawayo (Rh. 1517) Kew.
Hyparrhenia cymbaria Stapf, Schagen, *Liebenberg*, 29868.
Hyparrhenia sp., Garstfontein, *Pienaar*, 8913.
Monocymbium ceresiiforme Stapf, Garstfontein, *Pienaar*, 1270, Kew ; Durban, *McClean* 32304.
? on **Schizachyrium semiberbe** Nees, Derdepoort, *Doidge & Bottomley*, 29802.
on **Themeda triandra** Forsk., Johannesburg, 461 ; Koedoespoort, *Pearson*, 1586 ; Springbok Flats, *Burtt Davy*, 767 ; Groenkloof, *Pole Evans*, 8938 : Donkerpoort, *Doidge & Bottomley*, 29755 ; Schagen, *Liebenberg*, 29934 ; Fauresmith, *Liebenberg*, 33253.
Andropogoneae undet., Pretoria, *Howlett*, 9051 ; Mooi River, *Mogg*, 10068 ; Harrisburg 24339.

Puccinia Verwoerdiana v. d. Byl

van der Byl (1927) 226 ; Verwoerd (1931 a) 299 ; Nel (1942) 47.
on **Lycium** sp., Brandfort, Verwoerd (Stell. 292 ; v. d. Byl 2425).

Puccinia Woodiana Doidge

Doidge (1927 a) 68, 205.
on **Oldenlandia natalensis** (Hochst.) O. Ktze., Town Bush Valley, *Pole Evans*, 1409, Type ; Maritzburg, *Fuller*, 1540 ; nr. Clydesdale, *Tyson 2108*, 20243.

Puccinia Zorniae (Diet.) McAlp.

Doidge (1927 a) 99.
on **Zornia tetraphylla** Mich., Inanda, *Medley Wood 593*, 11112, 11171, Kew ; Dundee, *Doidge*, 914.

Pucciniosira Dissotidis Wakef.

P. & H. Sydow (1924) 325 ; Doidge (1927 a) 164.
Aecidium Dissotidis Cooke (1882 a) 124 ; Sacc. Syll. Fung. VII : 789.
Uredo Dissotidis Cooke, l.c. ; Sacc. Syll. Fung. VII : 838.
Uredo Dissotidis longicaudae P. Hennings (1903) 159 ; Sacc. Syll. Fung. XVII : 450.
on **Dissotis incana** Triana, Natal, *Medley Wood 223*, 10288, 11194, Kew ; Mailas Kop, Transvaal, *Schlechter*.
Dissotis longicaudata Cogn., Kampuluve, *Baum 800*.
Dissotis princeps Triana, Natal, *Medley Wood 470*, 10289, Kew.

Ravenelia atrides Syd.

H. & P. Sydow (1912 c) 438 ; P. & H. Sydow (1915) 307 ; Dietel (1928) 73 ; Sacc. Syll. Fung. XXIII : 807 ; Doidge (1927 a) 153, (1948 b) 906.
on **Grewia caffra** Meisn., Bluff, Durban, *Doidge*, 1630, *Pole Evans*, 1670, Type, 2534.
Grewia kwebensis N.E.Br., Olifants River Camp, Kruger National Park, *Liebenberg*, 32731.
Grewia monticola Sond., Nelspruit, *Doidge*, 32401.
Grewia occidentalis Linn., Amanzimtoti, *Doidge*, 1629, Kew.

Ravenelia Baumiana P. Henn.

P. Hennings (1903) 157 ; Dietel (1906) 397 ; Sacc. Syll. Fung. XVII : 405 ; P. & H. Sydow (1915) 262; Doidge (1927 a) 148, (1948 b) 906 ; Hopkins (1938 a) 107, (1939 a) 9.
Haploravenelia Baumiana (P. Henn.) Syd., H. Sydow (1921) 165.
on **Cassia delagoensis** Harv., Nelspruit, *Doidge*, 32404 ; Schagen, *Liebenberg*, 30955 ; Rooiwal, *Bosman*, 29870.
Cassia goratensis Fres., Humbe, *Baum 965*, Type, 6886, Kew ; Trelawney (Rh. 2958, 3301).

Ravenelia Bottomleyae Doidge

Doidge (1927 a) 147 ; Hopkins (1938 a) 107.
on **Albizzia versicolor** Welw., Victoria Falls, Bottomley, 14166.

Ravenelia deformans (Maubl.) Diet.

Dietel (1906) 404 ; P. & H. Sydow (1915) 296 ; Sacc. Syll. Fung. XXI : 745 ; Doidge (1927 a) 150.
Pleoravenelia deformans Maublanc (1906) 73.
Cystingophora deformans (Maubl.) Syd., H. Sydow (1921) 165.
on **Acacia** sp. (*A. arabica* prox.), Mhalume, *Le Testu*, 7616 (Syd. Ured. 2341).

Ravenelia Dichrostachydis Doidge

Doidge (1927 a) 148.
on **Dichrostachys glomerata** (Forsk.) Chiov., Verulam, *Pole Evans*, 6806, 7106.

Ravenelia Elephantorrhizae Doidge

Doidge (1927 a) 149.
on **Elephantorrhiza elephantina** (Burch.) Skeels, Koedoespoort, *Pole Evans*, Type, 8955, Kew ; Buffelshoek, *Pole Evans*, 12225 ; Kaalfontein, *Pole Evans*, 12841 ; Skinner's Court, *Doidge*, 23453 ; Enselberg, *Pole Evans*, 23359 ; Donkerpoort, *Doidge & Bottomley*, 29732.

Ravenelia escharoides Syd.

H. & P. Sydow (1912 c) 440 ; P. & H. Sydow (1915) 241 ; Sacc. Syll. Fung. XXIII : 793 ; Doidge (1927 a) 144 ; Hopkins (1939 a) 4.

on **Acacia Burkei** Benth., Potgietersrust, *Burtt Davy*, 534, Type ; Springbok Flats, *Pole Evans*, 10086 ; Naboomspruit, *Galpin*, 20654 ; Hartebeestpoort, *Doidge*, 27586 ; Pienaar's River, *Doidge & Bottomley*, 29918.

Acacia mossambicensis Bolle, eastern border of Southern Rhodesia, *Hopkins*.

Ravenelia Evansii Syd.

H. & P. Sydow (1912 c) 440 ; P. & H. Sydow (1915) 243 ; Sacc. Syll. Fung. XXIII : 796 ; Doidge (1927 a) 144, (1939) 504.

Dendroecia Evansii Syd., H. Sydow (1921) 165.

on **Acacia Gerrardi** Benth., Verulam, *Halse*, 30127.

Acacia Rehmanniana Schinz, Plat Rivier, *Pienaar*, 5625.

Acacia robusta Burch., The Willows, *Pole Evans*, 123, 149, 2181, Type, 2211, 14144, 5175, 6588, 6698 ; Loskop, *Pienaar*, 18085 ; Magalies River, 1316 ; Verulam, *Pole Evans*, 6807, 7105 ; Maquassi Ranch, Wolmaransstad Distr., *Liebenberg*, 29933 ; Umzinto, *McClean*, 30124 ; Magaliesberg, *van Nouhuys*, 28954.

Acacia Woodii Burtt Davy, Estcourt, *Pole Evans*, 2539, Kew.

Acacia spp., Cramond, *Pole Evans*, 2403 ; Pretoria, *Bottomley*, 11670 ; Johannesburg, *Moss*, 33171.

Ravenelia glabra Kalchbr. & Cooke.

Cooke (1880 c) 384 ; Kalchbrenner & Cooke (1880) 22 ; Sacc. Syll. Fung. VII : 771 ; Dietel (1894) 30, 59, (1906) 410 ; Parker (1886) 215 ; P. & H. Sydow (1915) 298 ; Doidge (1927 a) 151.

sub *Ravenelia stictica* Berk. & Br., von Thuemen (1876 b) 426 ; Sacc. Syll. Fung. VII : 772.

on **Calpurnia sylvatica** E. Mey., Somerset East, *MacOwan 1145*, Type (Rabenh. Wint. Fung. Eur. 2624 ; Thuem. Myc. Univ. 554 ; Syd. Ured. 599, 600 ; S.A.M. 28754) 2375, 10696, 10698, 20732, 20728, Kew ; Boschberg, *MacOwan 1141*, *1438*, 20727, 20851 ; Kentani, *Pegler*, 2320, 2330, 5165, Kew.

Ravenelia Halsei Doidge

Doidge (1939) 504.

on **Acacia ataxacantha** DC., Ndwedwe, *Halse*, 30117, Type.

Ravenelia Indigoferae Tranzsch.

Dietel (1894) 369 ; P. & H. Sydow (1915) 300 ; Doidge (1927 a) 151.

sub *Ravenelia laevis* Diet. & Holw., Eyles (1926) 641 ; Hopkins (1938 a) 107, (1939 a) 23.

on **Indigofera** sp., Salisbury, *Eyles*, 15513 (Rh. 2255).

Ravenelia inornata Diet.

Dietel (1894) 52, 61, (1906) 384 ; Sacc. Syll. Fung. XI : 211 ; P. & H. Sydow (1915) 244 ; Doidge (1927 a) 145.

Aecidium inornatum Kalchbrenner (1882 b) 25 ; Sacc. Syll. Fung. VII : 787.

Cystotelium inornatum (Diet.) Syd., H. Sydow (1921) 165.

Haploravenelia inornata Dietel (1928) 72.

on **Acacia Karroo** Hayne, Somerset East, *MacOwan 1436*, Type (Rabenh. Wint. Fung. Eur. 3921) 2377, 4262, 20734, Kew ; Kentani, *Pegler 1877*, 2368, 2541, Kew ; Grahamstown, *N. J. G. Smith*, 26396 ; Kirkwood, *Doidge*, 22375.

Ravenelia Le Testui Maubl.

Maublanc (1906) 396 ; Dietel (1906) 396 ; Sacc. Syll Fung. XXI : 739 ; P. & H. Sydow (1915) 267 ; Doidge (1927 a) 148.

on **Cassia** sp., Marral, *Le Testu*.

Ravenelia MacOwaniana Pazschke

Dietel (1894) 30, 59 ; Sacc. Syll. Fung. XI : 211 ; P. & H. Sydow (1915) 294 ; Doidge (1927 a) 150 (1948 a) 906; Dietel (1928) 72.

Aecidium ornamentale Kalchbr., von Thuemen (1876 b) 362 ; Kalchbrenner (1882 b) 25 ; Sacc. Syll. Fung. VII : 787 ; P. Sydow (1899 a) (131) ; Pole Evans (1906 a) 132 ; van der Byl (1925 b) 193 ; Verwoerd (1931 a) 299 ; Nel (1942) 30.

Ravenelia ornamentalis Dietel (1906) 402 ; Sacc. Syll. Fung. XXI : 744 ; Nel (1942) 48.

Cephatelium MacOwanianum (Pazschke) Syd., H. Sydow (1921) 165.

on **Acacia Karroo** Hayne, Boschberg, *MacOwan 1044*, Type (Thuem. Myc. Univ. 224 ; Rabenh. Wint. Fung. Eur. 3727 ; S.A.M. 28737) 2376, 4067, 20730, 20731, 20733, Kew ; Inanda, *Medley Wood 682*, Kew ; Kentani, *Pegler*, 1915, 8757 ; Bathurst, *Pienaar*, 2552 ; Queenstown, *Holley*, 8857 ; Klipplaat, *Schonland*, 15453 ; Indwe, *Pienaar*, 2077 ; Trapp's Valley, *Pienaar*, 2423 ; Cango Valley, *v. d. Byl 374 ;* Butterworth, *Pegler 1794*, 7367, Kew ; Plat Rivier, *Pienaar*, 2135 ; Prieska, *Bryant*, 28606 ; Riverton, *Moran*, 10017 ; Vryburg, *Burtt Davy*, 2357, 5154 ; Ladysmith, *Medley Wood*, 329, 834, 10299, 13074 ; Muden, *Doidge*, 8245 ; Bloemfontein, *Potts*, 11300, *Tidmarsh*, 28505, *Verwoerd*, *Burtt Davy*, Kew ; Kroonstad, *v. d. Merwe*, 1471 ; Karoo, *v. d. Byl 1102* ; Swellendam, *v. d. Byl 1389 ;* Oudtshoorn, *v. d. Byl 2205*, *2206* (Stell. 242) ; Knysna, *Duthie* (Stell. 177) ; Leeuwdoorns, *Burtt Davy*, 929 ; Wonderboom, *Pole Evans*, 1985, 2170, 2095 (Syd. Fung. Exot. 19) Kew, *Doidge*, 1524 ; Hennops River, *Doidge*, 2123 ; Garstfontein, *Pienaar*, 6665, Kew ; Onderstepoort, *Pole Evans*, 7404, *Mogg*, 28597 ; Springbok Flats, *Pole Evans* 11002 ; Horn's Nek, *Pole Evans*, 11857 ; Ashbury, *Moore*, 21052 ; Fountains Valley, *v. d. Byl*, 2255, *Doidge*, 23452, *Henrici*, 28603 ; Zwartfontein, *Burtt Davy*, 2355 ; Baviaans Kloof, *Pole Evans*, 2447 ; Mooiplaats, Hatherley, *E. du Toit*, 24913 ; Silverton Road, *Reinecke*, 23203 ; Fairy Glen, *Doidge*, 21224, 21225, 23449 ; Hartebeestpoort, *Doidge*, 27585 ; The Willows, *Doidge & Bottomley*, 29817 ; Derdepoort, *Doidge & Bottomley*, 29798 ; Pienaar's River, *Doidge & Bottomley*, 29916 ; Donkerpoort, *Doidge & Bottomley*, 30912 ; Weenen Road, Estcourt, *Pentz*, 30971 ; Ventersburg, *Doidge*, 31021 ; Wolmaransstad, *Doidge*, 30237.

Ravenelia minima Cooke

Cooke (1882 a) 128 ; Sacc. Syll. Fung. VII : 772 ; Dietel (1894) 35, 63, (1906) 382 ; P. & H. Sydow (1915) 247 ; Doidge (1927 a) 147 ; Doidge & Bottomley (1931) 24.

on **Albizzia gummifera** (Gmel.) C.A.Sm., Inanda, *Medley Wood 571*, Type, 10697, Kew ; Winkle Spruit, *Pole Evans*, 1385, 1400, 1582, 2384 ; Scottsburgh, *Pole Evans*, 6827, Kew ; Durban, *McClean*, 30779.

Ravenelia modesta Doidge

Doidge (1939) 504, (1948 b) 907.

on **Acacia stolonifera** Burch., Pienaar's River, *Doidge & Bottomley*, 30110, Type.

Acacia Gillettae Burtt Davy, Bosplaas, between Hamanskraal and Pienaar's River, *Mogg*, 34572.

Ravenelia natalensis Syd. & Evans

H. & P. Sydow (1912 c) 439 ; P. & H. Sydow (1915) 245 ; Sacc. Syll. Fung. XXIII : 794 ; Doidge (1927 a) 145.

Longia natalensis (Syd. & Evans) Syd., H. Sydow (1921) 165.

Haploravenelia natalensis (Syd. & Evans) Dietel (1928) 72.

on **Acacia hirtella** E. Mey., Winkle Spruit, *Pole Evans*, 1584, 1935, Type, *Doidge* 2514, Kew.

Ravenelia Peglerae Pole Evans

Pole Evans (1918 c) 111 ; Doidge (1927 a) 146.

on **Acacia caffra** (Thunb.) Willd., Kentani, *Pegler 229, 1874*, 2331, Type, 2367, 5179, 5626 ; Butterworth, *Pegler 1876*, 2544, Kew ; Weenen, *Pole Evans*, 5150.

Ravenelia Pienaarii Doidge

Doidge (1927 a) 146.

on **Acacia caffra** (Thunb.) Willd., Garstfontein, *Pienaar*, 5627, 6658, Type, Kew : Baviaans Poort, *Pole Evans*, 2449 ; Pretoria, *Bottomley*, 11508 ; Silverton Ridge, *Doidge*, 23451 ; Hartebeestpoort, *Bottomley*, 23450 ; Fairy Glen, *Doidge*, 23448 ; *Doidge & Bottomley*, 26395 ; Weenen, *Glasse*, 5159.

Ravenelia pretoriensis Syd.

H. & P. Sydow (1912 c) 441 ; P. & H. Sydow (1915) 241 ; Sacc. Syll. Fung. XXIII : 797 ; Doidge (1927 a) 46, (1939) 505.

on **Acacia ? pennata** Willd., Garstfontein, *Doidge*, 1376, Type.

Ravenelia stictica Berk. & Br.

P. & H. Sydow (1915) 302 ; Doidge (1927 a) 152.

Ravenelia Munduleae P. Hennings (1908) 271

on **Mundulea sericea** (Willd.) Greenway, The Willows, *Pole Evans*, 124, 2210, 2256, Kew ; Hartebeestpoort, *Burtt Davy*, 146 ; The Thorns, *Doidge*, 1522 ; Silverton, *v. d. Byl*, 2227; Silikats Nek, *Doidge*, 13089, Kew; Meintjies Kop, *Gower*, 19842 ; Silverton Ridge, *Doidge*, 23447 ; Potgietersrust, *Moore*, 28255 ; Donkerpoort, *Doidge & Bottomley*, 29728 ; Apies River, 22 mls. north of Pretoria, *Goossens*, 30716 ; Pretoria Distr., *Mogg*, 32667.

Ravenelia Tephrosiae Kalchbr.

Parker (1886) 217 ; Sacc. Syll. Fung. VII : 773 ; Dietel (1894) 29, 60, (1906) 408 ; P. & H. Sydow (1915) 304 ; Doidge (1927 a) 153 ; Hopkins (1938 a) 107, (1939 a) 45.

on **Tephrosia Heckmanniana** Harms, Salisbury (Rh. 2339, 2372).

Tephrosia macropoda (E. Mey.) Harv., Inanda, *Medley Wood*, 10700 ; Entumeni, *Haygarth*, 14190.

Ravenelia transvaalensis Doidge

Doidge (1939) 505.

on **Acacia detinens** Burch., nr. Pienaar's River, *Mogg*, 27382, Type.

Ravenelia Woodii Pazschke

Dietel (1894) 48, 67, (1906) 402 ; P. & H. Sydow (1915) 290 ; Sacc. Syll. Fung. XI : 211 ; Doidge (1927 a) 149.

on **Leguminosae** undet., Natal, *Medley Wood*.

Schroeteriaster Doidgeae Syd.

H. Sydow (1926) 265 ; Doidge (1927 a) 160.

on **Croton gratissimus** Burch., Waterberg, *Pole Evans*, 14173, Kew.

Schroeteriaster stratosus (Cooke) Syd.

P. & H. Sydow (1915) 402 ; Doidge (1927 a) 160 ; Doidge & Bottomley (1931) 21.

Melampsora stratosa Cooke (1882 a) 128 ; P. Sydow (1899 a) (131) ; Sacc. Syll. Fung. VII : 594.

on **Croton sylvaticus** Hochst., Inanda, *Medley Wood 466*, Type, 363, 10363, Kew ; Winkle Spruit, *Pole Evans*, 2020, 2383, 5639, *Doidge*, 2500 ; Eshowe, *McClean*, 33093.

Skierka robusta Doidge

Doidge (1927 a) 155.

on **Rhoicissus rhomboideus** (E. Mey.) Planch., Durban, *Doidge*, 1635, Type ; Lemana, *Doidge*, 1824, Kew ; Winkle Spruit, *Pole Evans*, 2398 ; Isipingo, *Doidge*, 6628 ; Umgeni Beach, *Pole Evans*, 2416 ; Umhlanga Rocks, *Wager*, 32781

Sphaerophragmium Artabotrydis Doidge

Doidge (1941 c) 232.

on **Artabotrys Monteiroae** Oliv., Westville, *Howlett*, 30761, Type.

Sphaerophragmium Dalbergiae Diet.

Dietel (1893) 301 ; Sacc. Syll. Fung. XI : 209 ; P. & H. Sydow (1915) 186 ; Doidge (1927 a) 138.

on **Dalbergia armata** E. Mey., Inanda, *Medley Wood 606, 609*, Type, Kew ; Umgeni Lagoon, *Doidge*, 881, 2524 ; Durban, *Pole Evans*, 1371 ; Bluff, Durban, *Pole Evans*, 5144 ; Verulam, *Pole Evans*, 6825 ; Schagen, *Liebenberg*, 30954 ; Empangeni, *McClean*, 35147.

Uromyces Albucae Kalchbr. & Cooke

Kalchbrenner (1882 b) 20 ; Sacc. Syll. Fung. VII : 558 ; P. & H. Sydow (1910) 260 ; Doidge (1927 a) 39 ; Nel (1942) 49.

Uredo sempertecta Thuem., von Thuemen (1876 b) 578.

on **Albuca altissima** Dryand, without locality (*Sydow*) ; Oudtshoorn, *Verwoerd* (Stell. 290 : v. d. Byl 2364).

Albuca aurea Jacq., Somerset East, *MacOwan 1252*, 20745.

Albuca juncifolia Bkr., without locality (*Sydow*).

Albuca minor Linn., Boschberg, *MacOwan 1177* (S.A.M. 33984) Kew ; Tulbagh, *Dippenaar* (Stell. 1022).

Albuca spp., Inanda, *Medley Wood 68, 647*, 1129, 11130, 11165, Kew ; Kirstenbosch, *Glover*, 8368 ; *Pearson*, 8395, 8408 ; Bloemfontein, *Potts*, 11306 ; Hopefield, *v. d. Byl 2453, 2376 ;* Clanwilliam, *v. d. Byl 2629.*

Uromyces Alchemillae (Pers.) Lév.

Doidge (1927 a) 27.

on **Alchemilla Rehmannii** Engl., Haenertsburg, *Pole Evans*, 20628.

Uromyces Aloes (Cooke) Magn.

Magnus (1892 a) 48 ; P. Sydow (1899 a) (130) ; P. Hennings (1903) 156 ; P. & H. Sydow (1910) 265 ; V. A. Putterill (1918) 656 ; van der Byl (1925 b) 193 ; Doidge (1927 a) 39, (1948 b) 908 ; Doidge & Bottomley (1931) 5 ; Verwoerd (1931 a) 299 ; Hopkins (1938 a) 107, (1939 a) 4 ; Nel (1942) 50.

Uredo Aloes Cooke (1891) 16.
Uromyces aloicola P. Hennings (1892) 370.
on **Aloe arborescens** Mill. var. **natalensis**, Howick, *v. d. Byl 256*
Aloe Barbertoniae Pole Evans, Riversdale, *Muir*, 23655.
Aloe Baumii Engl. & Gilg., Habungu, *Baum 476*.
Aloe Davyana Schon., Potgietersrust, *Pole Evans*, 117.
Aloe ferox Mill., Port Elizabeth, *Doidge*, 2327, Kew ; Mossel Bay, *v. d. Byl 1388 :* Knysna, *v. d. Byl*.
Aloe grandidentata Salm., Johannesburg, *Knox-Davies*, 15532.
Aloe Greatheadii Schonl., Salisbury (Rh. 1992).
Aloe Greenii Bkr., Durban, *v. d. Byl 499*, 31782.
Aloe latifolia Haw., East London, *Rattray*, 9826.
Aloe Marlothii Berger, Durban, *v. d. Byl 533*, 31801.
Aloe purpurascens (Ait.) Haw., Riversdale, *Muir*, 23654.
Aloe saponaria (Ait.) Haw., Mooi River, *Medley Wood*, 325, Kew ; Howick, *Medley Wood 5411*, 31790 ; Pretoria, *Brain* (v. d. Byl 1708), *Bottomley*, 30952 ; Vincent, *G. G. Smith*, 33327 ; Brandfort, *Verwoerd* (Stell. 285).
Aloe striata Haw., Keniston nr. Grahamstown, *Snow*, 26597.
Aloe Thraskii Bkr., Pretoria, *Pole Evans*, 8973.
Aloe transvaalensis O. Ktze., Groenkloof, *Burtt Davy*, 1968, *Pole Evans*, 1007, 8922 ; Pretoria, *Pole Evans*, 431 ; Hartebeestpoort, *Mogg*, 32275.
Aloe spp., Barberton, *Pole Evans*, 1924 ; Pretoria, *Bottomley*, 8900 ; Natal, 17278 ; Barberton, *Liebenberg*, 25971 ; Bloemfontein, *Verwoerd ;* Riversdale, *du Plessis ;* Klerksdorp, *Schonken* (Stell. 85).
Haworthia altilinea Haw., Vincent, *G. G. Smith*, 33326.
Haworthia Reinwardtii Haw., Vincent, *G. G. Smith*, 33324.
Haworthia retusa (L.) Haw., Vincent, *G. G. Smith*, 33325.
Haworthia spp., Vincent, *G. G. Smith*, 33252, 33327.

Uromyces Alysicarpi Wakef. & Hansf.

Uredo Alysicarpi Doidge (1927 a) 194, 212 ; Hopkins (1938 a) 107, (1943) 179.
on **Alysicarpus violaceus** (Forsk.) Schindl., Skinner's Court, *Pole Evans*, 915 ; Olifantsfontein, *Pienaar*, 12821 ; Bulawayo, *Hopkins*.
Alysicarpus sp., Victoria Falls, *Eyles 4326*.

Uromyces Anomathecae Cooke

Cooke (1890 b) 6 ; Sacc. Syll. Fung. IX : 294 ; H. Sydow (1922 a) 54 ; P. & H Sydow (1910) 256 ; Doidge (1927 a) 35, (1948 c)932 ; Nel (1942) 50.
on **Lapeyrousia cruenta** Bkr., Durban, *Medley Wood 693*, Type, 330 ; Stella Bush, *Leslie*, 31951 ; Winkle Spruit, *Doidge*, 2507 ; Donkerpoort, *Doidge & Bottomley*, 30109 ; Durban, *v. d. Byl 568*.
Lapeyrousia grandiflora Bkr., Wonderboom, *Pole Evans*, 443 ; Durban, 30937.

Uromyces Antholyzae Syd.

Verwoerd (1929 b) 5 ; Doidge (1939) 510, (1948c)933 ; Nel (1942) 50.
on **Anapalina revoluta** N.E. Br., Ruytersbosch, *Gemmell*, 30085 ; Stellenbosch, Newlands, Knysna, *Verwoerd*.
? **Antholyza** spp., Kalk Bay, Levyns (v. d. Byl 1306) ; Stellenbosch, *Verwoerd* (Stell. 255 ; v. d. Byl 2186).

Uromyces appendiculatus (Pers.) Link.

P. Sydow (1899 a) (130) ; van der Byl (1926 c) 288 ; Verwoerd (1929 b) 8, (1931 a) 299 ; Doidge (1927 a) 25 ; Doidge & Bottomley (1931) 25, 29 ; Hopkins (1938 a) 107, (1939 a) 33 ; Cardoso (1937) 153, (1938) 76, (1939) 45, (1943) 66, (1945) 157.

Uredo Phaseolorum de Bary, Cooke (1879 b) 71.

Uromyces Phaseolorum DC., Kalchbrenner (1882 b) 19.

on **Phaseolus acutifolius** Gray var. **latifolius** Freem., Nelspruit, *Liebenberg* 26008.

Phaseolus vulgaris Linn., Inanda, *Medley Wood 89, 504*, 10577, 10593, 10624, Kew ; Durban, *v. d. Byl*, 31922 ; Utrecht, *Neethling*, 27578 ; Kentani, *Pegler*, 7769, 8850 ; Pretoria, *Lounsbury*, 1505 ; Wonderboom, *Pole Evans*, 1493 ; Daspoort, 616 ; Brooklyn, *Doidge*, 23189 ; Pretoria, *Louwrens*, 26140 ; Pyramids, *Mogg*, 32382 ; Orchards, *Bottomley*, 30950 ; Witpoortje, *Moore*, 27379 ; Nelspruit, *Hall*, 2536, 5157, 6849 ; Boulders, *Wager*, 22383 ; Barberton, *Liebenberg*, 25966 ; Zoutpansberg, 605 ; Paarl, Wellington, George, Oudtshoorn, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell. 12) ; Bloemfontein, *Verwoerd ;* S. Rhodesia, *Hopkins ;* Moamba, *da Silva ;* Umbelusi, *Gonçalves* and *Guimarãis ;* Sul do Save, *Cardoso ;* Manhica, *Guimarãis ;* Chobela *Cardoso ;* Chai-chai, *Cardoso ;* Moamba, *da Silva ;* Infuleni, *de Sousa*, 34252.

Phaseolus coccineus Linn., common and widespread.

Uromyces Argyrolobii Doidge.

Doidge (1927 a) 21, 206 ; Hopkins (1938 a) 108, (1939 a) 41.

on **Argyrolobium amplexicaule** (E. Mey.) Dummer, Mooi River, *Mogg*, 10075, Kew, Type.

?on **Sesbania** sp., Marandellas (Rh. 2165).

Uromyces badius Syd.

H. Sydow (1924 a) 235 ; Doidge (1927 a) 37 ; Nel (1942) 50.

on **Haemanthus coccineus** Linn., Cape Town, *Wordsworth*, 10996 ; between Table Mt. and Devil's Peak, *Andraea*, 20309.

Haemanthus pumilio Jacq., Stellenbosch, *Duthie* (v. d. Byl 2290 ; Stell. 260).

Haemanthus rotundifolius Gawl., Stellenbosch, *Verwoerd* (Stell. 188).

Haemanthus spp., Stellenbosch, *Duthie* (v. d. Byl 1254, Type, 1247) ; Hopefield, *v. d. Byl 2031*.

Uromyces Barbeyanus P. Henn.

Doidge (1927 a) 17.

on **Rhus** sp., Graskop, *Pole Evans*, 14688 ; Barberton, *Pole Evans*, 1165.

Uromyces Betae (Pers.) Lev.

Kalchbrenner (1882 b) 20 ; Sacc. Syll. Fung. VII : 536 ; P. & H. Sydow (1910) 224 ; Doidge (1927 a) 28 ; Verwoerd (1929 b) 8, (1931 a) 299 ; v. d. Byl (1922 d) 285 ; Doidge & Bottomley (1931) 285 ; Nel (1942) 50.

on **Beta vulgaris** Linn., Somerset East, *MacOwan 1034* (S.A.M. 28723) ; Glen Avon, 2538, Kew ; Sandown Bay, *Jonker*, 22837 ; Grahamstown, *Knowling*, 24867 ; Stellenbosch, *v. d. Byl 258, 1435, 2766*, *Verwoerd* (Stell. 53) *du Plessis*, (Stell. 532) ; Kuils Rivier, Wynberg, Dieprivier, Paarl, Wellington, *Verwoerd ;* Bloemfontein, *Verwoerd ;* Potchefstroom, *Theron*, 23500 ; Bizana, *Millin*, 28483.

Uromyces Bidentis Lagerh.

Doidge (1927 a) 11 ; Doidge & Bottomley (1931) 13.

as *Trichobasis cichoracearum* Lév., Cooke (1879 b) 71.

as *Uromyces bidentatis*, Nel (1942) 50.

on **Bidens pilosa** Linn., Inanda, *Medley Wood 230*, 10617 ; Amanzimtoti, *Doidge*, 1610 ; Kentani, *Pegler*, 7768, 8854, Kew ; Westfalia, *Doidge*, 20341 : Durban, *McClean*, 30669, *Wager*, 32421, *v. d. Byl 190, 253 ;* Winkle Spruit, *v. d. Byl*, 31967.

Uromyces Bolusii Mass.

Massee (1901 b) 168 ; Sacc. Syll. Fung. XVII : 253 ; H. Sydow (1922 a) 55 ; Doidge (1927 a) 21 ; Nel (1942) 50.

on **Aspalathus pachyloba** Benth., Montagu Baths, *Bolus*, 7597, Kew, Type.
Aspalathus sp., Stellenbosch, *Garside* (v. d. Byl 2091).

Uromyces Bulbinis Thuem.

von Thuemen (1877) 409 : Kalchbrenner (1882 b) 20 : Sacc. Syll. Fung. VII : 572 ; P. & H. Sydow (1910) 267 ; Doidge (1927 a) 40.

on **Bulbine aloöides** Willd., Boschberg, *MacOwan 1019*, Type (S.A.M. 28747) 20784, Kew.
Bulbine latifolia R. & S., Natal, *Medley Wood 451*, 11128, 11175.
Bulbine praemorsa R. & S., Stellenbosch, *Verwoerd* (Stell. 353).

Uromyces Bylianus Doidge

Doidge (1927 a) 43.

on **Liliaceae** undet. (? **Chlorophytum** or ? **Anthericum**) Llewellyn, *v. d. Byl*, 6944, Type.

Uromyces capensis Doidge

Doidge (1927 a) 16, 206

on **Oenothera biennis** Linn., Wellington, *Doidge*, 1221, Type.

Uromyces caryophyllinus (Schrank.) Wint.

Pole Evans (1906 a) 134, (1908 e) 123 ; P. & H. Sydow (1910) 210 ; Doidge (1927 a) 27 ; Verwoerd (1929 b) 9, (1931 a) 299 ; Doidge & Bottomley (1931) 17, 60 ; Hopkins (1938 a) 108, (1939 a) 17 ; Cardoso (1937) 153, (1938) 76, (1939) 45, (1943) 60, (1945) 161.

? sub *Puccinia Lychnidearum* Fuck., Kalchbrenner (1882 b) 23

on **Dianthus barbatus** Linn., Sunnyside, *Pole Evans*, 1984 ; ? Somerset East, *MacOwan 1332*.
Dianthus caryophyllus Linn., Pretoria, *Pole Evans*, 130, *Krohn*, 6969, *Lounsbury*, 20686, *Doidge*, 30656 ; Johannesburg, *Vipan-Theed*, 6961, *v. Zyl*, 6594 ; Radium, *Cresswell*, 22344 ; Duivelskloof, *Spitteler*, 22110 ; Heidelberg, *v. Zyl*, 26362 ; Lourenço Marques, *Howard*, 528, 5178, and *Monteiro ;* Sul do Save, *Cardoso ;* Armoedsvlakte, *Henrici*, 20316, Kew ; Durban, *Wager*, 32418 ; Blakesley, *Fitchet*, 20676 ; Tarkastad, *Hattingh*, 24356 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell.29) ; Tulbagh, *Dippenaar*, (Stell. 950) ; Mossel Bay (Stell. 531) ; Paarl, Worcester, Wellington, Wynberg, Cape Town, *Verwoerd ;* Salisbury, Eyles (Rh. 50) Kew, *Eyles 4012* (Rh. 3172, 3231, 374, 1162, 1814, 2446) ; Bulawayo (Rh. 2983) ; Durban, *McClean*, 30115.
Dianthus crenatus Thunb., Inanda, *Medley Wood 615*, 10484, 11190, Kew.
Dianthus Zeyheri Sond., Silikats Nek, *Pole Evans*, 17032.
Dianthus sp., Durbanville, *Biccard* (v. d. Byl 1106) ; Stellenbosch, *v. d. Byl 1110 ;* Salisbury, *v. d. Byl 1737*.

Uromyces Cassiae-mimosoidis Doidge

Doidge (1948 b) 908.
Uredo Cassiae-mimosoidis Doidge (1941 c) 233.

on **Cassia mimosoides** Linn., Buffelspoort, *Doidge & Bottomley*, 32170, Type ; Fairy Glen, *Doidge*, 30915 ; Donkerpoort, *Doidge & Bottomley*, 29741.

Uromyces Chloridis Doidge

Doidge (1927 a) 46, 207 ; Doidge & Bottomley (1931) 60.
on **Chloris virgata** Sw., Skinner's Court, 43, Type ; Bloemfontein, *Potts*, 11317.

Uromyces circinalis Kalchbr. and Cooke.

Cooke (1879 b) 71 ; Sacc. Syll. Fung. VII : 573 ; P. & H. Sydow (1910) 281 ; Doidge (1927 a) 43 ; Doidge & Bottomley (1931) 58.
Uromyces MacOwani Bubak (1902) 19 ; Sacc. Syll. Fung. XVII : 259.
sub *Uromyces Scillarum* (Grev.) Wint., Syll. Fung. VII : 567.
on **Scilla prasina** Bkr., Somerset East, *MacOwan 1417* (Thuem. Myc. Univ. 1438) 20843, 20782, Kew.
on host undet., Natal, *Medley Wood 231*, Type, Kew.

Uromyces Clignyi Pat. & Har.

Doidge (1939) 511.
on **Andropogon amplectens** Nees, Donkerpoort, *Doidge & Bottomley*, 29751 ; Derdepoort, *Doidge & Bottomley*, 29788.

Uromyces Cluytiae Kalchbr. & Cooke

Kalchbrenner (1882 b) 20 ; Sacc. Syll. Fung. VII : 556 ; P. & H. Sydow (1910) 153 ; Doidge (1927 a) 18 ; v. d. Byl (1926 c) 288 ; Nel (1942) 51.
on **Cluytia Galpini** Pax, Zwartkop, *Doidge*, 11600 ; Donkerpoort, *Doidge & Bottomley*, 29742.
Cluytia hirsuta E. Mey., Natal, *Medley Wood 52*, 11127 ; Grootfontein, nr. Harrismith, *v. d. Byl*, 2318, 18066 ; nr. Mont aux Sources, *Doidge*, 14156, Kew.
Cluytia monticola S. Moore, Mont aux Sources, *Doidge*, 23461.
Cluytia pulchella Linn., Inanda, *Medley Wood 32, 43, 51, 76*, 10582, 10603, 11226, Kew ; Sabie, *Pienaar*, 5147 ; Garstfontein, *Pienaar*, 7086, 8402 ; Silikats Nek, *Doidge*, 12240 ; Silverton Ridge, *Doidge*, 23459 ; Fairy Glen, *Doidge*, 23458 ; Hottentots Holland, nr. False Bay, *MacOwan 1325*, Type, Kew ; Mamathes, *Hean*, 33135.
Cluytia spp., Rooiwal, *Bosman*, 29903 ; Woodbush, *v. d. Byl 1664* ; Marwaqa Forest, *Doidge*, 32113.

Uromyces Commelinae Cooke

P. & H. Sydow (1910) 292, (1924) 595 ; van der Byl (1926 c) 288 ; Doidge (1927 a) 44 ; Eyles (1926) 636 ; Hopkins (1938 a) 108, (1939 a) 5 ; Nel (1942) 51 ; Cardoso (1945) 164.
on **Aneilema** sp., Salisbury, *Hopkins*.
Commelina benghalensis Linn., Infulene, *Cardoso*, 34251.
Commelina Krebsiana Kunth, Pietersburg, *Doidge*, 1818 ; Garstfontein, *Pienaar*, 1839, Kew ; Olifants River, *Pole Evans*, 11023.
Commelina Livingstoni C.B. Cl., Chalasi, *Howard*, 630 : Matola, *Howard*, 673
Commelina spp., Komati Poort, *Pole Evans*, 11711 ; Salisbury, *Eyles* (Rh. 2072) 13993 ; Fauresmith, *Liebenberg*, 33251 : Durban, *v. d. Byl 183* ; Stella Bush, *v. d. Byl*, 31924.

Uromyces comptus Syd.

H. & P. Sydow (1910) 259 ; P. & H. Sydow (1910) 354 : Sacc. Syll. Fung. XXI : 569 ; Doidge (1927 a) 12.
on **Merremia bipinnatipartita** Hallier f., Okahandja, *Dinter*.

Uromyces Dieramatis Doidge

Doidge (1948 c) 929.

on **Dierama pendulum** Bkr., Cramond, *Pole Evans*, 1580, Type, 1451, 2410 : Inanda, *Medley Wood 585*, 10475 Kew (sub *Puccinia Gladioli* Cast.) ; Durban, *McClean*, 31030 ; Bethlehem, *v. d. Merwe*, 28815.

Dierama pulcherrimum Bkr., Kentani, *Pegler*, 6677, 6924, 7092.

Dierama sp., Nottingham Road, *McClean*, 32308.

Uromyces Dolicholi Arthur

Doidge (1927 c) 233.

? as *Uromyces* sp., Cardoso (1945) 158.

on **Cajanus Cajan** Millsp., Winkle Spruit, *Pole Evans*, 1594, 1919 ; ? Maotas, *Soares*.

Uromyces Drimiopsidis Doidge

Doidge (1941 c) 234.

sub *Uromyces Erythronii* (DC.) Pass. var. *Drimiopsidis*, nom. nud. in Herb. Kew.

as *Uromyces Erythronii* (DC.) Pass., Nel (1942) 51.

on **Drimiopsis maculata** Lindl., Durban, *Medley Wood 688*, Type, 11125, *v. d. Byl 189, 536, 564, 569*, 31959, 31995.

Uromyces Ecklonii Bubak.

P. & H. Sydow (1910) 253 ; Sacc. Syll. Fung. XXI : 580 ; Doidge (1927 a) 32, (1948 c) 921 ; Doidge & Bottomley (1931) 24 ; Nel (1942) 51.

on **Freesia** sp., Cape, *Ecklon & Zeyher ;* Prospect, nr. Komgha, *Pegler*, 5129, Kew ; Thornville Junction, *Slatter*, 23186 ; Greytown, *O. Nel* (v. d. Byl 1283) ; Mount Edgecombe, *Wager*, 33762 ; Joubertina, *Deysel*, 29714.

Uromyces Ehrhartae-giganteae Doidge

Doidge (1927 a) 47, Nel (1942) 51.

on **Ehrharta gigantea** Thunb., Mowbray, *v. d. Merwe*, 7392, Type ; Hopefield, *v. d. By. 2426, 2455*, 34129, 34130 ; Stellenbosch, *Verwoerd* (Stell. 374 ; v. d. Byl 1127) 34128*l*

Uromyces Eragrostidis Tracy

Doidge (1927 a) 47 ; Doidge & Bottomley (1931) 35.

Uromyces pedicellata Pole Evans (1918 b) 228 ; Sacc. Syll. Fung. XXIII : 644 ; Verwoerd (1931 a) 300.

Puccinella Eragrostidis (Tracy) H. Sydow (1922 b) 123.

on **Eragrostis Atherstonei** Stapf, Nelspruit, *Liebenberg*, 26058.

Eragrostis chloromelas Steud., Ashbury, *Doidge & Bottomley*, 29786.

Eragrostis curvula Nees, Skinner's Court, *Pole Evans*, 246 ; Pretoria, *Pole Evans*, 11319, Kew ; Ashbury, *Doidge & Bottomley*, 29785 ; Durban, *McClean*, 32301.

Eragrostis tef (Zucc.) Trotter, Skinner's Court, *Pole Evans*, 13, 261, 266, 2335, Kew ; Langlaagte, *Fry*, 8945, Kew ; Pretoria, *Pole Evans*, 1083, 11318, Kew ; Bloemfontein, *Verwoerd*.

Uromyces Eriospermi Kalchbr. & Cooke

Kalchbrenner (1882 b) 21 ; Sacc. Syll. Fung. VII : 557 ; P. & H. Sydow (1910) 268 ; Doidge (1927 a) 41 ; Wakefield (1936) 53 ; Hopkins (1938 a) 108 ; Nel (1942) 51.

Uredo Eriospermi MacOwan in litt.

Aecidium Eriospermi P. Henn., in Herb. Stell.

on **Eriospermum cernuum** Bkr., Table Mt., *Marloth*, 17282.
Eriospermum dissitiflorum Schlecht., Belfast, *Doidge*, 566, *Ingle*, 251.
Eriospermum graminifolium Duthie, without locality, *Bosman* (v. d. Byl 2038) ; Stellenbosch, *Verwoerd* (Stell. 173).
Eriospermum lanceaefolium Jacq., Gordon's Bay, *Verwoerd* (Stell. 321).
Eriospermum Mackenii Bkr., Umzinyati, *Medley Wood 552*, 11172, 11126, Kew.
Eriospermum parvifolium Jacq., Stellenbosch, *Bosman* (v. d. Byl 2042) ; *Verwoerd* (Stell. 52).
Eriospermum pubescens Jacq., Stellenbosch, *Retief* (Stell. 86), *Duthie* (Stell. 267).
Eriospermum spp., Cape Town, Saxton, 502 ; Belfast, *Doidge*, 763 ; Kaalfontein, *Mogg*, 11653 ; Hartebeestpoort, *Mogg*, 32276 ; Alicedale, *Cruden*, 12181 ; Ceres, *Marloth*, 19871, *Leslie*, (v. d. Byl 2441); Cedara, *Staples*, 20305 ; Grahamstown, *Dyer*, 23375 ; Haenertsburg, *Mogg*, 28506 ; Bulawayo, *Eyles 4338* (Stell. 555) ; Woodbury, *Hφeg 82*, Kew ; Somerset East, *MacOwan 1402*, Kew ; Tulbagh, *Markotter*, (v. d. Byl 2339), *Dippenaar* (Stell. 1020) ; Elgin, *Dippenaar* (Stell. 960) ; Hermanus, *Dippenaar* (Stell 863) ; Malmesbury, *v. d. Byl 1961, 2193 ;* Genadendal, *Verwoerd* (v. d. Byl 1278) ; Stellenbosch, *v. d. Byl 876, 1152, du Plessis* (Stell. 1025) ; Boekenhout Kloof, *Mogg*, 32892.

Uromyces ermelensis Doidge

Doidge (1927 a) 23.
on **Indigofera** sp., Davel, *McCall*, 5598, Kew.

Uromyces euphorbiicola (Berk. & Curt.) Tranzsch.

Doidge (1948 b) 909.
as *Uromyces proeminens* (D.C.) Lév., Doidge (1927 a) 19 ; Hopkins (1939 a) 19 ; Cardoso (1945) 164.
as *Uromyces Euphorbiae* Cooke & Peck, Nel (1942) 52.
on **Euphorbia prostrata** Ait., Durban, *Medley Wood*, 809, 11124, 14200 ; Maritzburg, *J. M. Sim*, 9202 ; Pretoria, *Pole Evans*, 6962, *Hean*, 30643 ; Durban, *v. d. Byl 257 ;* Salisbury (Rh. 2072) ; Elandskop, *E. du Toit*, 35280 ; Lourenço Marques, *Mota*.

Uromyces Fabae (Pers.) de Bary

Von Thuemen (1876 b) 363 ; Kalchbrenner (1882 b) 20 ; Sacc. Syll. Fung. VII : 531 ; van der Byl (1922 d) 285 ; Doidge (1927 a) 26 ; Verwoerd (1929 b) 8, (1931 a) 299 ; Doidge & Bottomley (1931) 14 ; Hopkins (1938 a) 168, (1939 a) 47 ; Cardoso (1938) 75, (1937) 153, (1939) 45, (1943) 63, (1945) 157.
Aecidium leguminosarum Rabenh., Berkeley (1876 a) 175.
as *Uromyces appendiculatus*, Nel (1942) 50.
on **Vicia Faba** Linn., Somerset East, *MacOwan 1056* (S.A.M. 28725) ; Grahamstown, 260 and *Dewar*, 275 ; Wellington, *Lounsbury*, 194 ; Butterworth, *Pegler*, 8347 ; Bathurst, *Wright*, 26599 ; Stellenbosch, *v. d. Byl 259*, *Swart* (Stell. 137) ; Somerset West, *Verwoerd ;* Bloemfontein, *Verwoerd ;* Natal, *Medley Wood*, 10588 ; Skinner's Court, *Pole Evans*, 1210, Kew : Pyramids, *Hean*, 32802 ; Rusapi (Rh. 2399) ; Sul do Save, Cardoso ; Chai chai, *Cardoso :* Infuleni, *Guimarãis*, 34248 ; Umbelusi, *Guimarãis*.
? on host undet., foot of Table Mt., *Eaton*.

Uromyces Ferrariae Doidge

Doidge (1948 c) 931.
on **Ferraria** sp., Chipinga (Rh. 4298) 33427, Type.

Uromyces fiorianus Sacc.

Nel (1942) 52.

on **Peucedanum** sp., Bulwer, *v. d. Byl 68.*

Uromyces Freesiae Bubak.

Bubak (1900) 318 ; Sacc. Syll. Fung. XVI : 267 ; P. & H. Sydow (1910) 252 ; Doidge (1927 a) 32, (1948 c) 935; Doidge & Bottomley (1931) 24; Verwoerd (1929 b) 12.

on **Freesia** sp., Cape, *Zeyher ;* Johannesburg, 17283 ; Joubertina, *Deysel*, 29714 ; Stellenbosch, *Verwoerd ;* Greytown, *Nel* (Stell. 136).

Uromyces Gladioli P. Henn.

Hennings (1895 b) 326 ; Sacc. Syll. Fung. XIV : 283 ; P. & H. Sydow (1910) 254; Doidge (1927 a) 33, (1948 c) 926; Doidge & Bottomley (1931) 26; Nel (1942) 52.

Uromyces Geissorhizae P. Hennings (1900 c) (153) ; Sacc. Syll. Fung. XVI : 267 ; P. & H. Sydow (1910) 253 ; Doidge (1927 a) 32 ; Doidge & Bottomley (1931) 25 ; Nel (1942) 52.

Uromyces Babianae Doidge (1927 a) 31 ; Doidge & Bottomley (1931) 11.

Uromyces Romouleae v. d. Byl & Werd., Werdermann (1923) 54 ; van der Byl (1922 d) 285 ; Nel (1942) 55.

Uromyces Romuleae Doidge (1927 a) 36

? as *Puccinia Gladioli* Cast., Kalchbrenner (1882 b) 23 ; Sacc. Syll. Fung. VII : 728.

on **Babiana disticha** Ker., Retreat, *Pole Evans*, 12959, Kew.

Babiana stricta Ker., Cold Bokkeveld, *Marloth*, 21014.

Geissorhiza imbricata (De la R.) Ker., Stellenbosch, *Verwoerd* (Stell. 259 ; v. d. Byl 2192), *Duthie* (v. d. Byl 2066).

Geissorhiza rupestris Schlecht., without locality (*Sydow*).

Geissorhiza secunda Ker., Vogelgat, *Schlechter 9577*, 33300.

Gladiolus angustus Linn., Cape, *Leibold.*

Gladiolus blandus Ait., without locality (*Sydow*) ; Stellenbosch, *Dippenaar* (Stell. 991).

Gladiolus cochleatus Sweet, French Hoek, *Dippenaar*, (Stell. 1023).

Gladiolus crassifolius Bkr., Kincardine, Ugie, *Joubert*, 25317, Kaalfontein, nr. Bronkhorstspruit, *Mogg*, 34217.

Gladiolus cuspidatus Jacq., Stellenbosch, *Duthie* (v. d. Byl 2211) ; Diep Rivier, *Marloth*, 9304 ; Kenilworth, *Bolus*, 8366.

Gladiolus debilis Ker., Stellenbosch, *Markotter* (Stell. 1024).

? **Gladiolus Ecklonii** Lehm., Bazuja, *Baur* (S.A.M. 28755).

Gladiolus formosus Klatt, Bokkeveld, *Marloth 7561*, 10032.

Gladiolus hirsutus Jacq., Piquetberg, *Marloth*, 21031.

Gladiolus orchidiflorus Andr., without locality (*Sydow*).

Gladiolus recurvus Linn., Kentani, *Pegler 1958*, 8412 ; Albertinia, *Muir*, 8867 ; Stellenbosch, *Duthie* (v. d. Byl 2341).

Gladiolus spp., Durban, *v. d. Byl*, 9176 ; Cape Town, 543 ; Cramond, *Pole Evans* 6851 ; Mooi River, *Mogg*, 17037 ; Wellington, *Verwoerd ;* Hopefield, *v. d. Byl 1245 ;* Stellenbosch, *Duthie* (v. d. Byl 2069).

Romulea rosea Ecklon, Klapmuts, *v. d. Byl 494*, 10094, 32447 and *v. d. Byl 181.*

Romulea sp., Hopefield, *v. d. Byl 2024.*

? on **Moraea ramosa** Ker., without locality (*Sydow*).

Uromyces Greenstockii Doidge

Doidge (1927 a) 13, 207.

on **Ipomoea Greenstockii** Rendl., Kaalfontein, *Pole Evans*, 10989, Type.

Uromyces Harmsianus (P. Henn.) Doidge

Doidge (1927 a) 22, 207.
Uredo Harmsiana P. Hennings (1900 c) (154) ; Sacc. Syll. Fung. XVI : 353 ; P. & H. Sydow (1924) 476.
sub *Uredo leguminosarum* Link, Kalchbrenner (1882 b) 25.
on **Crotalaria lanceolata** E. Mey., Ianando, *Medley Wood 199*, 11120, 11168, Kew ; Scottsburgh, *Pole Evans*, 6834, Type, Kew.
Crotalaria australis Bak. f., Barberton, 147.

Uromyces Heteromorphae Thuem.

Von Thuemen (1877) 409 ; Sacc. Syll. Fung. VII : 577 ; P. & H. Sydow (1910) 50 ; van der Byl (1926 c) 288 ; Doidge (1927 a) 15 ; Nel (1942) 52.
Uredo Heteromorphae MacOwan in litt.
Uromyces papillatus Kalchbrenner & Cooke (1882) 20 ; Sacc. Syll. Fung. VII : 555.
on **Heteromorpha arborescens** C. & S., Woodbush, *v. d. Byl 1517*.
Heteromorpha involucrata Conr., Barberton, *Pole Evans*, 1856.
Heteromorpha pubescens Burtt Davy, Graskop, *Pole Evans*, 14687.
Heteromorpha transvaalensis Schltr. & Wolff, Pretoria, *Pienaar*, 1197 ; Garstfontein, *Pienaar*, 1263 ; Debbe's Ravine, *Mogg*, 23460, 25333, 29850 ; Silverton Ridge, *Doidge*, 23462 ; Entabene, *Wager*, 26372.
Heteromorpha trifoliata E. & Z., Boschberg, *MacOwan 1021*, Type (Thuem. Myc. Univ. 1640 ; Rabenh. Wint. Fung. Eur. 3827 ; Roum. Fung. Sel. Exsicc. 4719 ; S.A.M. 28749) 4167, 20785, 20790, Kew ; Natal, *Medley Wood 449*, 11123, 11174 ; Nottingham Road, *McClean*, 32282.
Peucedanum capense Sond., Inanda, *Medley Wood 623*, 805, 10629, Kew.
Peucedanum galbanum (L.) Benth. & Hk., Stellenbosch, *Verwoerd* (Stell. 385).
Peucedanum Zeyheri Sond., Durban, *Medley Wood*, 7796 ; Bulwer, *Haygarth*, 7791.

Uromyces Hobsoni Vize

P. & H. Sydow (1924) 320 ; Doidge (1927 a) 14 ; Doidge & Bottomley (1931) 69.
Aecidium Tylophorae Cooke (1890 b) 6 ; Sacc. Syll. Fung. IX : 322 ; P. Sydow (1899 a) (131) ; Nel (1942) 31.
on **Jasminum multipartitum** Hochst., Natal, *Medley Wood 694*, Kew ; Uitenhage, 579 ; Durban, *Lansdell*, 14820, 17289, *Bottomley*, 14243, Kew ; Maritzburg, *Sim*, 15664 ; Durban, *Forbes* (v. d. Byl 116, 117).

Uromyces Holubii Doidge

Doidge (1941 c) 235.
sub *Uromyces liliacearum* Ung. in Herb. Kew.
on **Liliaceae** undet. (? **Dracaena** sp.) Lishumo Valley, *Holub* (ex herb. M.C. Cooke, Kew) 30887, Type.

Uromyces Hyperici-frondosi (Schw.) Arth.

Doidge (1927 a) 17.
on **Hypericum natalense** Wood & Evans, Kentani, *Pegler 1961*, 8828, Kew.

Uromyces Hypoxidis Cooke

Cooke (1882 a) 127 ; Sacc. Syll. Fung. VII : 555 ; P. & H. Sydow (1910) 274 ; Doidge (1927 a) 38 ; Doidge & Bottomley (1931) 30.
on **Hypoxis latifolia** Hk., Winkle Spruit, *Pole & Evans*, 1597.
Hypoxis oligotricha Bkr., Clairmont, *Medley Wood 586*, Type, 789, 11122, 11170, Kew.
Hypoxis villosa L.f., Kentani, *Pegler 1985*, 8935, Kew.
Hypoxis sp., Nottingham Road, *McClean*, 32283.

Uromyces inaequialtus Lasch.

Pole Evans (1915 a) 115 ; van der Byl (1925 b) 193 ; Doidge (1927 a) 29 ; Nel (1942) 53.

on **Silene** sp., Namaroup, *Pearson*, 8407 ; Grootrivier, *v. d. Byl 1396 ;* Mamathes, *Hean*, 33134.

Uromyces Ipomoeae (Thuem.) Berk.

Kalchbrenner (1882 b) 19 ; P. & H. Sydow (1910) 33 ; Sacc. Syll. Fung. XXI : 565 ; Doidge (1927 a) 13.

Aecidium Ipomoeae Thuem., von Thuemen (1878 a) 354.

Uredo aterrima Thuem., von Thuemen (1878 a) 355 ; Sacc. Syll. Fung. VII : 841.

Trochodium Ipomoeae (Thuem.) Syd., H. & P. Sydow (1919 b) 106 ; Dietel (1928) 80.

sub *Puccinia Ipomoeae* Cooke, Sacc. Syll. Fung. VII : 671.

on **Ipomoea convolvuloides** Hall, Silikats Nek, *Bottomley*, 12239.

Ipomoea oenotheroides (L.f.) Rafin., Klein Vis Rivier, nr. Somerset East, *MacOwan 1225, 1226* (Rabenh. Fung. Eur. 3627) 3967, Kew.

Ipomoea Ommanei Rendl., Belfast, *Doidge*, 558, Kew.

Uromyces Ixiae (Lév.) Wint.

Winter (1884 c) 262 ; P. Hennings (1898) 293 ; Sacc. Syll. Fung. XVII : 260 ; P. & H. Sydow (1910) 255 ; Doidge (1927 a) 34, (1948c) 924.; Doidge & Bottomley (1931) 31 ; Nel (1942) 53.

? *Uredo Ixiae* Rudolphi (1829) 387.

? *Uredo Ixiae* Léveillé (1845) 70.

Uromyces Melasphaerulae Syd., H. & P. Sydow (1904) 28 ; P. & H. Sydow (1910) 256 ; Doidge (1927 a) 35 ; Nel (1942) 54.

Uromyces delagoënsis Bubak, P. & H. Sydow (1910) 255 ; Sacc. Syll. Fung. XXI : 581 ; Doidge (1927 a) 35 ; Cardoso (1945) 163.

on **Engysiphon exscapus** (Thunb.) Lewie, without locality (Sydow).

Ixia furcata Ker., Bokkeveld, *Marloth 7659*, 33302.

Ixia leucantha Jacq., St. James, *Pole Evans*, 7736.

Ixia lutea Bkr., Drakenstein Mts., *Galpin 12281*, 33306.

Ixia maculata Thunb., near Hopefield, *Letty*, 33305, *v. d. Byl 1291.*

Ixia paniculata Del., Caledon, *Marloth 5939*, 33304.

Ixia patens Ait., Genadendal, *Roser*, 33309.

Ixia polystachya Linn., without locality, (Sydow).

Lapeyrousia corymbosa Ker., near Paarl, *MacOwan ;* without locality, *Zeyher 1594*, 33320.

Lapeyrousia delagoensis Bkr., Moçambique, *Junod ;* Delagoa Bay, *Thoday 169*, 33321.

Melasphaerula graminea Ker., Hopefield, *Bachmann ;* Table Mt., *Ecklon*, 33301 ; Nachtwacht, Bredasdorp, *C. A. Smith*, 33308 ; Signal Hill, *Thode*, (v. d. Byl 2070).

Sparaxis bulbifera Ker., Bloemendaal, *Zeyher 3968*, 33319.

Sparaxis grandiflora Ker., Cape Flats, *MacOwan.*

Uromyces kentaniensis Doidge

Doidge (1927 a) 30, 208 (1948 c) 928 ; Doidge & Bottomley (1931) 5.

on **Pentamenes aethiopica** (L.) Phillips, Kentani, *Pegler 2381*, 9313.

Uromyces Lachenaliae Doidge

Doidge (1927 a) 42, 208 ; Doidge & Bottomley (1931) 33 ; Nel (1942) 53.

on **Lachenalia orchidioides** Ait., Stellenbosch, *Verwoerd* (Stell. 114).

Lachenalia pendula Ait., Cape Town, 5140, Kew.

Lachenalia reflexa Thunb., Stellenbosch, *Dippenaar* (Stell. 966), *Verwoerd* (Stell. 298).
Lachenalia tricolor Thunb. var. **Nelsoni** Bkr., Slanghoek Mts., *Andraea*, 19853.
Lachenalia unicolor Jacq., Williston, *Glover*, 8369.
Lachenalia unifolia Jacq., Stellenbosch, *Verwoerd* (Stell. 286).
Lachenalia spp., Hopefield, *v. d. Byl 2029, 2030* ; Stellenbosch, *Bosman* (v. d. Byl 2040), *Duthie* (v. d. Byl 1725, 2456), *Verwoerd* (v. d. Byl 1258) ; Tulbagh, *Dippenaar* (Stell. 1021).
Polyxena ensifolia (Thunb.) Schon., Uitenhage, *Pienaar*, 2437.

Uromyces krantzbergensis Doidge

(Doidge (1948b) 909.
on **Liliaceae** undet. (? **Anthericum** sp.) Krantzberg, *Dyer, Verdoorn & Erens*, 34505.

Uromyces leptodermus Syd.

Doidge (1927 a) 48 ; Doidge & Bottomley (1931) 29, 60 ; Hopkins (1938 a) 108, (1939 a) 7, 30, 47 ; Cardoso (1944 b) 51, (1945) 163.
on **Brachiaria brizantha** Stapf, Schagen, *Liebenberg*, 29936 ; Salisbury, *Hopkins*.
Brachiaria dictyoneura Stapf, Salisbury (Rh. 3399).
Brachiaria erucaeformis Griseb., Harden Heights, *Pole Evans*, 1454 ; Tweedie, *Mogg*, 11646.
Brachiaria serrata Stapf, Donkerpoort, *Doidge & Bottomley*, 29737.
Panicum deustum Thunb., Amanzimtoti, *Doidge*, 30126.
Panicum laevifolium Hack., Skinner's Court, 248, 267, 721 ; Witbank, *Walters*, 1249 ; Langlaagte, *Fry*, 8951 ; Roberts Heights, *Pole Evans*, 8931 ; Bloemfontein, *Potts*, 11308 ; Cana, *Hean*, 32738 ; Buffelspoort, *Doidge*, 30118.
Panicum maximum Jacq., Winkle Spruit, *Pole Evans*, 1596, 2394, Kew ; Salisbury (Rh. 1980, 2012) ; Shamva (Rh. 2678).
Panicum Meyerianum Nees, Empangeni, *McClean*, 31019.
Urochloa bulbodes Stapf, Salisbury (Rh. 2083, 2087).
Urochloa mosambicensis Dandy, Salisbury (Rh. 2088).
Urochloa panicoides Beauv., Umbelusi, *Howard*, 670 ; Barberton, *Mogg*, 7807 ; Nelspruit, *Liebenberg*, 26181 ; Buffelspoort, *Doidge*, 29990, 31022.
Urochloa pullulans Stapf, Nkwalini Valley, *McClean*, 33094 ; Caniçado, *Barradas*.
Urochloa trichopus Stapf, Pienaar's River, *Schmolle*, 9097 ; Prinzhof, *Liebenberg*, 28775 ; Matopos (Rh. 1362) ; Gwanda (Rh. 3508 a) and *Doidge*, 30298 ; Moçambique, *Howard*, 1461.
Urochloa sp., Nelspruit, *Liebenberg*, 26059.

Uromyces Limonii (DC.) Lév.

Doidge (1939) 508.
on **Limonium latifolium** Ktze., Pretoria, *Taylor*, 28319, *v. d. Merwe*, 33478 ; Hartebeestpoort, *Bottomley*, 30284 ; Glen, *Morris*, 30153.

Uromyces Maireanus Syd.

P. & H. Sydow (1910) 280 ; Doidge (1927 a) 42(1948 b) 910.
on **Ornithogalum barbatum** Jacq., Stellenbosch, *Verwoerd* (Stell. 153).
Ornithogalum flavovirens Bkr., Grahamstown, *Archibald*, 33275, 33276, 33277, 33328.
Ornithogalum Roodeae Phill., Clanwilliam, *Rood*, 17288.
Ornithogalum sp., Natal, *Medley Wood 659*, 10492.

Uromyces Massoniae Doidge

Doidge (1939) 510.
on **Massonia latifolia** L.f., Fauresmith, *v. d. Plank*, 25447.

Uromyces Melantherae Cooke.

Cooke (1882 a) 127 : Sacc. Syll. Fung. VII : 546 : P. Sydow (1899 a) (130) ; P. & H. Sydow (1910) 6 ; Doidge (1927 a) 11.

Uredo compositarum var. *Melantherae* Cooke (1888 a) 70.

on **Melanthera Brownei** Sch. Bip., Umhlanga, *Medley Wood 627*, Type, 817, 11117, Kew ; Durban, *Medley Wood*, Kew.

Uromyces Mimusops Cooke

Cooke (1882 a) 127 : Sacc. Syll. Fung., VII : 579 : H. & P. Sydow (1909) 545 : P. & H. Sydow (1910) 39, 355 : Doidge (1927 a) 15 : Cardoso (1943) 64.

as *Uromyces mimusopsidis* Cooke, Sacc. Syll. Fung. VII : 579 : P. Sydow (1899 a) (130) ; Nel (1942) 54.

on **Mimusops caffra** E. Mey., Durban, *Medley Wood 506*, 342, 11116, 11169 : Durban, *Pole Evans*, 1604, *v. d. Byl 180, 188*, 9174 ; Amanzimtoti, *Doidge*, 30285 ; Umgeni Beach, *Doidge*, 2528, 8982 : Umgeni Flats, *v. d. Byl 486*, 31775 ; Port Shepstone, *Pole Evans*, 5614 ; Isipingo, *Doidge*, 6629 : Kelso Junction, *v. d. Byl*, 8373 : Kentani, *Pegler 2382*, 9420 ; East London, *Doidge*, 10909, Kew : Lourenço Marques, *Howard*, 669, 901 ; Ponta do Ouro, *Cardoso*, 34250 ; Eshowe, *Laughton*, 33514.

Mimusops Zeyheri Sond., De Kroon, *Malherbe*, 12807 : Rustenburg, *Kresfelder*, 23629 ; Wonderboom, *Mogg*, 26367 : Kromrivier, *Doidge & Bottomley*, 32740.

Uromyces Moraeae Syd.

H. & P. Sydow (1912 a) 33 ; Sacc. Syll. Fung. XXIII : 648 ; Doidge (1927 a) 36, (1948 c) 920.

on **Moraea spathulata** Klatt., Volksrust, *Weeber*, 773, Type, Kew : Melmoth, *Foster*, 11630 ; Mooi River, *Mogg*, 17036 ; Hope Vale, *Doidge*, 33438, 33323.

Uromyces Mucunae Rabenh.

Doidge (1927 a) 24 ; Eyles (1926) 631 : van der Byl (1926 c) 288 ; Hopkins (1938 a) 108, (1939 a) 45 ; Nel (1942) 54.

on **Mucuna coriacea** Bkr., Rooiwal, *Bosman*, 30297 ; Godwan River, *Liebenberg*, 26045 ; Palmaryville, *Wager*, 26369 ; Woodbush, *v. d. Byl 1500*.

Mucuna irritans Burtt Davy, Duivelskloof, *Doidge*, 20337.

Mucuna pruriens DC. ? Salisbury, *Mundy* (Rh. 771) 15446 ; Bromley (Rh. 2977) ; Salisbury, *v. d. Byl 2052, 2056*.

Mucuna spp., Mt. Edgecombe, *Storey*, 30938 : Salisbury, *Eyles* (v. d. Byl 1977).

Stizolobium Deeringianum Bort., Nelspruit, *Liebenberg*, 26071 : Citrus, *Sheffield*, 23188 ; Salisbury and Bromley, *Hopkins*.

Uromyces natalensis Magn.

Magnus (1896) 374 : Tranzschel (1910) 19 : P. & H. Sydow (1910) 171 ; Sacc. Syll. Fung. XIV : 282 ; Doidge (1927 a) 19.

on **Euphorbia Gueinzii** Boiss., Claremont, nr. Durban, *Schlechter*, Type ; Durban, *Medley Wood 4951*.

Uromyces paradoxus Syd.

H. & P. Sydow (1909) 543 ; P. & H. Sydow (1910) 188 ; Sacc. Syll. Fung. XXI : 532 ; Doidge (1927 a) 20 ; Cardoso (1945) 163.

on **Commiphora** sp., Lourenço Marques, *Howard*, 623, Type ; Quelimane, *Pole Evans*, 7386, Kew.

Uromyces Peglerae Pole Evans

H. & P. Sydow (1914 b) 263 ; Pole Evans & Bottomley (1818) 189 ; Sacc. Syll. Fung. XXIII : 644 ; Doidge (1927 a) 46 ; Doidge & Bottomley (1931) 24 ; Nel (1942) 54 ; Hopkins (1943) 184.

? *Uredo Rubigo vera* DC. f. *Digitariae sanguinalis* von Thuemen (1875) 378.

? *Uromyces sanguinalis* Evans, nom nud., Verwoerd (1929 b) 13.

? sub *Puccinia striaeformis* Wedt., Kalchbrenner (1882 b) 22.

on **Digitaria debilis** Willd., Kentani, *Pegler 1879*, Type, 8881, Kew.

Digitaria sanguinalis Scop., ? nr. Somerset East, *MacOwan 1113* (S.A.M. 34053) Kew ; Mooi River, *Mogg*, 10069 ; Stellenbosch, *Verwoerd* (Stell. 165, v. d. Byl 1432).

Digitaria setivalva Stent, S. Rhodesia, *Hopkins*.

Digitaria ternata Stapf, Kentani, *Pegler*, 7755 ; Maritzburg, *Pole Evans*, 1441 ; Barberton, *Lounsbury*, 1284 ; Cedara, *Fisher*, 2074 ; Pretoria, *Pole Evans*, 11686 ; Kokstad, *Mogg*, 14146.

Digitaria sp., Mt. Edgecombe, *Pole Evans*, 1405.

Uromyces Polemanniae Kalchbr. & Cooke

Kalchbrenner (1882 b) 21 ; Sacc. Syll. Fung. VII : 578 ; P. & H. Sydow (1910) 52 ; Doidge (1927 a) 16, (1948 b) 910.

on **Polemannia grossulariaefolia** E. & Z., nr. Somerset East, *MacOwan 1030*, Type (S.A.M. 28747) 20786.

Polemannia montana Schl. & Wolf, Bulwer, *Haygarth*, 33228.

Uromyces Polygoni (Pers.) Fuck.

Sacc. Syll. Fung. VII : 533 ; P. & H. Sydow (1910) 236 ; Doidge (1927 a) 29.

Uromyces Aviculareae (Pers.) Schroet., Kalchbrenner (1882 b) 18.

on **Polygonum aviculare** Linn., Somerset East, *MacOwan 1237* (Thuem. Myc. Univ. 1527) 20791 ; Somerset East, *MacOwan 1353*, *1153*, Kew ; Standerton, 178 ; Marico Distr., 433 ; Ventersdorp, 542 ; Sterkwater, *Pienaar*, 1960 ; Flaauwkraal, *Pienaar*, 2003 ; Pyramids, *Doidge*, 26090 ; Florida, *Moss*, 21024 ; Durban, *McClean*, 31027, 32297 ; Stellenbosch, *Verwoerd* (Stell. 153).

Polygonum tomentosum Willd., Natal, *Medley Wood*, 825 ; Garstfontein, *Pienaar*, 6654, Kew.

Uromyces pretoriensis Doidge

Doidge (1927 a) 45, 208.

on **Commelina africana** Linn., The Willows, *Pole Evans*, 2221, 2442, Kew.

Uromyces proëminens (DC.) Lév.

Kalchbrenner (1882 b) 20 ; P. & H. Sydow (1910) 158 ; Tranzschel (1910) 5–7 ; Doidge (1927 a) 19 ; Hopkins (1938 a) 108.

Uromyces pulvinatus Kalchbrenner & Cooke (1880) 21 ; Winter (1884 b) 167 ; Sacc. Syll. Fung. VII : 571.

on **Euphorbia inaequilatera** Sond., nr. Somerset East, *MacOwan 1247* (Rabenh. Fung. Eur. 3010 ; S.A.M. 33931) 3351, Kew ; Pretoria, *Pienaar*, 2183, *Doidge*, 6592, *Pole Evans* 7390, *Kresfelder* 29946 ; Garstfontein, *Erasmus*, 5596, 6577 ; Hamburg, *Burnet Wilson*, 1944 ; Buffelspoort, *Doidge*, 28613.

Uromyces Pseudarthriae Cooke

Cooke (1882 a) 127 ; Sacc. Syll. Fung. VII : 579 ; P. & H. Sydow (1910) 126 ; H. Sydow (1922 a) 55 ; Doidge (1927 a) 25.

on **Pseudarthria Hookeri** W. & A., Inanda, *Medley Wood 598*, Type, 11173, 11115, Kew ; Tzaneen, *Liebenberg*, 30958.

Uromyces Psoraleae Peck

Pole Evans (1906 a) 141 ; Nel (1942) 55.

on **Psoralea decumbens** Ait., Stellenbosch, *Verwoerd* (Stell. 256).
Psoralea obliqua E. Mey., Jonkershoek, *v. d. Byl 1400*.
Psoralea sp., Stellenbosch, *Marloth* (v. d. Byl 2190).

Uromyces rhodesicus Wakef.

Wakefield (1931) 202 ; Hopkins (1938 a) 108, (1939 a) 7.

on **Bauhinia Galpinii** N.E.Br., Concession (Rh. 1614, 1631).
Bauhinia macrantha Oliver, Banket (Rh. 2632) ; Shamva (Rh. 2684).
Bauhinia sp., Chakari, *Hopkins* (Rh. 1321) Type. Kew ; Salisbury (Rh. 2370).

Uromyces Rhynchosiae Cooke, emend. Doidge

Doidge (1948 b) 911.

Uromyces ? Rhynchosiae Cooke (1882 a) 127 ; P. & H. Sydow (1910) 350.
Uredo (*Trichobasis*) *Rhynchosiae* Kalchbrenner (1882 b) 24 ; Cooke (1882 a) 127 ; Nel (1942) 49.
Puccinia Rhynchosiae Kalchbr. & Cooke, Kalchbrenner l.c. ; Sacc. Syll. Fung. VII : 621.
Uromyces Dolichi Syd. not Cooke, P. & H. Sydow (1910) 122 ; Doidge (1927 a) 23 ; Hopkins (1939 a) 19.

on **Eriosema cajanoides** Benth., Schagen, *Liebenberg*, 29930.
Eriosema cordatum E. Mey., Inanda, *Medley Wood 556*, *621*, 361, 10637, 11121, Kew.
Eriosema salignum E. Mey., Inanda, *Medley Wood 528*, 10618, Kew ; Winkle Spruit, *Pole Evans*, 2371.
Eriosema spp., Entumeni, *Haygarth*, 14182 ; Lemana, *Doidge*, 1800, 1801 ; Macheke, *Hopkins*.
Flemingia Grahamiana W. & A., Natal, *Medley Wood 553*, *610*, 10627, Kew.
Rhynchosia caribaea DC., Garstfontein, *Pole Evans*, 2225, *Pienaar*, 8901 ; Donkerpoort, *Doidge & Bottomley*, 30082 ; Pretoria, *Mogg*, 26366 ; Durban, *McClean*, 31028 ; Waterkloof, *Bosman*, 32889.
Rhynchosia effusa (E. Mey.) Druce, Inanda, *Medley Wood 29*, 10502, Kew.
Rhynchosia Harmsiana Linn., Kentani, *Pegler*, 7811.
Rhynchosia Memnonia DC. var. **prostrata** Harv., Hebron, *Pole Evans*, 9053.
Rhynchosia secunda E. & Z., East London, *Doidge*, 22415.
Rhynchosia sordida (E. Mey.) Schinz, Inanda, *Medley Wood 565*, *579*, 848, 10635, 10636, 11150, Kew.
Rhynchosia totta DC., Pretoria, *Pienaar*, 2186.
Rhynchosia spp., Inanda, *Medley Wood 24*, 10595 ; Natal, *Medley Wood 617*, 10619 ; Garstfontein, *Pienaar*, 1427 ; Pretoria, *Pole Evans*, 1431 ; Tugela Valley nr. Mont aux Sources, *Doidge*, 14155, 14163 ; East London, *Pienaar*, 2171 ; Silikats Nek, *Bosman*, 29898 ; Durban, *v. d. Byl 55*.

Uromyces Rumicis (Schum.) Wint.

Kalchbrenner (1882 b) 18 ; Sacc. Syll. Fung. VII : 544 ; P. & H. Sydow (1910) 238 ; Doidge (1927 a) 301 ; Nel (1942) 55.
Uredo Rumicum DC. f. *Rumicis obtusifolii capensis* Thuem., von Thuemen (1877) 410.
Uredo Rumicum DC., Kalchbrenner (1882 b) 25.

on **Rumex crispus** Linn., Somerset East, *Pienaar*, 2233, Kew ; Fountains Valley, *Erens*, 30918.
Rumex nepalensis Spreng., Nottingham Road, *McClean*, 32288 ; Somerset East, *MacOwan 1255*, 20747, Kew.

Rumex Woodii N.E.Br., Kokstad, *Mogg*, 14147.
Rumex spp., Natal, *Medley Wood 115 ;* Stellenbosch, *Bosman* (v. d. Byl 1722).

Uromyces saginatus Syd.

H. Sydow (1928) 132 ; Doidge (1948 b) 912.
on **Urginea altissima** Bkr., Auros, Otavi, *Dinter 5673*, Type.
Urginea sp., Bulawayo, *Hopkins* (Rh. 5873) 34436.

Uromyces Schinzianus P. Henn.

Hennings (1906) 702 ; H. & P. Sydow (1908) 136 ; Sacc. Syll. Fung. XXI : 554 ; P. & H. Sydow (1910) 351, (1924) 472.
on **Bauhinia Thonningii** Schum., Boroma, *Menyharth* (Type in herb. bot. Mus. Univ. Zurich). Uredo only, fide Sydow l.c. ; possibly *Uromyces rhodesicus* Wakef.

Uromyces Setariae-italicae (Diet.) Yoshino

Doidge (1941 c) 235.
on **Setaria pallidifusca** Stapf & Hubb., Tweedie, *Mogg*, 11648 ; Nottingham Road, *McClean*, 31003.
Setaria verticillata Beauv., Groenkloof, *Pole Evans*, 9050 ; Muden, *Doidge*, 23212.

Uromyces Sparaxidis Syd.

H. & P. Sydow (1904 a) 27 ; Sacc. Syll. Fung. XVII : 260 ; P. & H. Sydow (1910) 257; Doidge (1927 a) 31, (1948 c) 919; Doidge & Bottomley (1931) 29.
on **Sparaxis tricolor** Ker., Natal, *Medley Wood*.
Sparaxis sp., Stellenbosch, *Verwoerd* (Stell. 303).

Uromyces stellenbossiensis v. d. Byl

Duthie (1928) 4 ; Doidge (1948 b) 914.
on **Urginea exuviata** Steinh., on leaves, Stellenbosch, *Duthie* (v. d. Byl 2479) Type, 34432.

Uromyces Strauchii Doidge

Doidge (1928) 473.
on **Cluytia daphnoides** Lam., Alexandria, *Doidge*, 22370, Type.

Uromyces striatus Schroet.

Van der Byl (1922 d) 285, (1926 c) 288 ; Doidge (1927 a) 24 ; Doidge & Bottomley (1931) 36 ; Hopkins (1938 a) 108 ; Verwoerd (1931 a) 300 ; Cardoso (1944 a) 46, (1945) 157.
Uromyces Medicaginis Pass., Eyles (1926) 641 ; Hopkins (1939 a) 26.
on **Medicago sativa** Linn., Platrand, *Burtt Davy*, 26 ; Pretoria, *Pole Evans*, 57, *Faure*, 312, 32666 ; Groenkloof, *L. Turner*, 7400, *Pole Evans*, 9096, Kew ; Robertson, 689 ; Middelburg, Cape, *Lounsbury*, 1200 ; Haenertsburg, 69 ; Nelspruit, *Wager*, 26627 ; Bloemfontein, *Potts*, 9048 and *Verwoerd ;* Umbelusi, *Howard*, 510 and *Guimarāis ;* Stellenbosch, *Verwoerd* (Stell. 26), *du Plessis* (Stell. 873), *v. d. Byl ;* Port Elizabeth, *K. M. Putterill*, 28527 ; Hunter's Road (Rh. 1309) Kew ; Penhalonga (Rh. 1656) ; Salisbury (Rh. 2120) ; Mazoe (Rh. 2932) ; Melsetter, Cashel, *Hopkins ;* Moçambique, *Cardoso ;* Durban, *Anderson* (v. d. Byl 531) 31799 ; Lourenço Marques, *Mota ;* Infuleni, *Soares ;* Umbeluzi, *Guimarāis*, 34249.
Medicago aschersoniana Urb., Queenstown, *Pole Evans*, 30916.

Uromyces Stylochitonis Doidge

Doidge (1927 a) 45, 209.
Aecidium aroideum Cooke (1879 b) 71 ; Sacc. Syll. Fung. VII : 831 ; P. & H. Sydow (1924) 290.
as *Aecidium Ari* Desm., Doidge & Bottomley (1931) 10.
on **Stylochiton natalense** Schott, Inanda, *Medley Wood 114*, 10279, Kew ; Malvern, *Doidge*, 776, 1995, Type, Kew.

Uromyces tenuicutis McAlp.

Doidge (1927 a) 48 ; Hopkins (1938 a) 108.
on **Sporobolus capensis** Kunth, Barberton, *Mogg*, 7808, Kew ; Derdepoort, *Doidge & Bottomley*, 29807.
Sporobolus pyramidalis Beauv., Salisbury, *Eyles 5016*.

Uromyces transversalis (Thuem.) Wint.

Winter (1884 c) 263 ; Sacc. Syll. Fung. VII : 546 ; P. Sydow (1899 a) (130) ; P. & H. Sydow (1910) 257; Doidge (1927) 33, (1948 c) 936; Doidge & Bottomley (1931) 26, 38 ; Hopkins (1939 a) 21 ; Cardoso (1943) 63, (1945) 162.
Uredo transversalis Thuem., von Thuemen (1876 b) 570 ; Kalchbrenner (1882 b) 25.
Uromyces Watsoniae Syd., P. & H. Sydow (1910) 258 ; Sacc. Syll. Fung. XXI : 581 ; Doidge (1927 a) 37 ; Doidge & Bottomley (1931) 66.
on **Gladiolus psittacinus** Hk., Sydenham, *Medley Wood*, 360.
Gladiolus Saundersii Hk.f., Somerset East, *MacOwan 1254 b*, Kew.
Gladiolus spp., Port Elizabeth, *Clark*, 26611 ; Rosetta, *Mogg*, 11635, 14145 ; Nottingham Road, *McClean*, 32310 ; Mooi River, *Mogg*, 10077, 17037 ; Entumeni, *Haygarth*, 14176, 14181 ; Arcadia, Pretoria, 472 ; Garstfontein, *Pienaar*, 1258 ; Debbe's Ravine, *Bosman*, 29853 ; Silverton Road, *Doidge*, 20418 ; Kaalfontein, *Pole Evans*, 10134, *Mogg*, 11676 ; Paardeplaats, *Pienaar*, 1503 ; on cultivated varieties, Brits, *Sieling*, 30981 ; Belfast, *Pole Evans*, 10987 ; Cathcart, *Reynolds*, 33520 ; Kingwilliamstown, *Jackson*, 34421 ; Moçambique, *Cardoso ;* Lourenço Marques, *Mota*, 34240.
Tritonia lineata Ker., Cape Town, *MacOwan*, (Rabenh. Fung. Eur. 3724) 4064.
Tritonia securigera Ker., Boschberg, *MacOwan 1254* (Rabenh. Fung. Eur. 3014) 3355, 20754, 20780, Kew ; Uitenhage, *Schmutz*, 25488.
Tritonia squalida Ker., without locality (Sydow).
Tritonia sp., Kentani, *Pegler 2435*, 10992.
Watsonia densiflora Bkr. forma, Belfast, *Doidge*, 552.
Watsonia angusta Ker., Kentani, *Pegler 2360, 2379*, 9165, 9192.
Watsonia meriana Müll., Paddock, *McClean*, 33322.
Watsonia spp., Sweetwaters, *Cromden*, 23182 ; Cana, *Hean*, 32142.

Uromyces Trichoneurae Doidge

Doidge (1939) 512.
on **Trichoneura grandiglumis** (Rendl.) Stapf & Hubb., Donkerpoort, *Doidge & Bottomley*, 29762, Type ; Derdepoort, *Doidge & Bottomley*, 29792 ; Nelspruit, *Liebenberg*, 26650, 26076.

Uromyces Trifolii (Hedw. f.) Lév.

on **Trifolium tomentosum** Linn., Stellenbosch, *Verwoerd*, (Stell. 263).
? on **Trifolium** sp., Lichtenburg, *Pons*, 29713.

Uromyces Trollipi Kalchbr. & MacOwan

Kalchbrenner (1882) 21 ; Sacc. Syll. Fung. VII : 582 ; P. & H. Sydow (1910) 190 ; Doidge (1927 a) 20.

Dichlamys Trollipi (Kalchbr. & MacOwan) Syd., H. & P. Sydow (1919) 105 ; Dietel (1928) 80.

on **Zygophyllum foetidum** Schrad., Kagaberg, *Trollip* (MacOwan 1404, Type ; Rabenh. Wint. Fung. Eur. 3006 ; S.A.M.) 3347, 20702.

Zygophyllum sp., Kalkfontein, *Dinter*, 20581, 26687, Kew.

Uromyces Valerianae (Schum.) Fuck.

Kalchbrenner (1882 b) 19 ; P. & H. Sydow (1910) 19 ; Doidge (1927 a) 12.

Uredo Valerianae DC.f. *Valerianae-capensis* Thuem., von Thuemen (1878 a) 355.

on **Valeriana capensis** Thunb., Boschberg, *MacOwan 1057 b*, (S.A.M. 28733) 20922, Kew.

Uromyces ventosa Syd.

H. Sydow (1924 a) 235 ; Doidge (1927 a) 22.

Teleutospora ventosa (Syd.) Nel (1942) 48.

on **Borbonia parviflora** Lam., Stellenbosch, *Verwoerd* (Stell. 364).

Borbonia sp., Stellenbosch, *Duthie* (v. d. Byl 1246) Type.

Uromyces Vignae Barcl.

Hopkins (1938 a) 108 ; Doidge (1948 b) 914.

? *Uromyces Dolichi* Cooke (" *Uromyces phaseolorum* forma ") Cooke (1882 a) 127 ; Sacc. Syll. Fung. VII : 565.

? *Aecidium* sp., Hopkins (1938 a) 105, (1939 a) 18.

sub *Uromyces appendiculatus* (Pers.) Link, Hopkins (1939 a) 48.

on **Dolichos falciformis** E. Mey., Lemana, *Doidge*, 1827.

?on **Dolichos gibbosus** Thunb., Somerset East, *MacOwan ;* Durban, *Medley Wood 40.*

on **Dolichos lupiniflorus** N.E.Br., Wellesley, *Hopkins* (Rh. 2232) 33383 ; Mteptepa (Rh. 1849).

Vigna stenophylla Burtt Davy, Donkerpoort, *Doidge & Bottomley*, 30081.

Vigna unguiculata (L.) Walp., Nelspruit, *Liebenberg*, 26069 ; Cedara, *Staples*, 15432 ; Bathurst, *Preddy*, 20426 ; Glendale (Rh. 1248) Kew.

Vigna sp., Wellesley (Rh. 2249, 2233) 33384.

Uromyces Zeyheri Bubak

P. & H. Sydow (1910) 255 ; Sacc. Syll. Fung. XXI : 580 ; Doidge (1927 a) 34, (1948 c) 923 ; Doidge & Bottomley (1931) 31.

Uromyces Bona-spei Bubak, P. & H. Sydow (1910) 258 ; Sacc. Syll. Fung. XXI : 581 ; Doidge (1927 a) 37 ; Doidge & Bottomley (1931) 38.

on **Tritonia scillaris** Bkr., Houwhoekberg, *Schlechter 9411*, 33296.

Tritonia pallida Ker., without locality (Sydow).

Uropyxis Gerstneri Doidge

Doidge (1948 b) 916.

on **Annonaceae** undet., leaves, False Bay, Zululand, *Gerstner*, 34564.

Uropyxis Steudneri P. Magn. var. **rhodesica** Doidge

Doidge (1948 b) 917.

on **Ormocarpum trichocarpum** (Taub.) Harms., Inyati, *Hopkins* (Rh. 5990) 34032.

FORM GENERA.

Aecidium acalyphicolum Doidge

Doidge (1927 a) 181.
sub *Puccinia Evansii* P. Hennings (1908) 271.
on **Acalypha angustata** Sond., The Willows, *Burtt Davy*, 208 ; Marico Distr., *Burtt Davy*, 705, Kew ; Haenertsburg, *Ord Brown*, 442 ; Middelbult, Lichtenburg Distr., *Pienaar*, 1060 ; Garstfontein, *Pienaar*, 1987.
Acalypha peduncularis E. Mey., The Willows, *Pole Evans*, 207.

Aecidium Acanthacearum Cooke

Cooke (1882 a) 124 ; Sacc. Syll. Fung. VII : 817 ; P. & H. Sydow (1924) 94 ; Doidge (1927 a) 177.
on **Chaetacanthus Burchellii** Nees, Inanda, *Medley Wood 645*, Type, 10275, 10277, Kew.
Hypoestes triflora R. & S., Kat River Valley, *Moore*, 21013.
Isoglossa densa N.E.Br., Hopevale, *Doidge*, 27748.
Isoglossa Eckloniana Lindau, Barberton, *Pole Evans*, 1163.
Isoglossa Woodii C.B.Cl., Barberton, *Doidge*, 2016, Kew.
Isoglossa spp., Groenkloof, *Mogg*, 7407 ; Woodbush, *Doidge*, 20328 ; Piesanghoek, *Bosman*, 25867.
Justicia sp., Inanda, *Medley Wood 603*, 10276, Kew.

Aecidium Acanthopsidis Syd.

H. & P. Sydow (1915 b) 36 ; Sacc. Syll. Fung. XXIII : 867 ; P. & H. Sydow (1924) 92.
on **Acanthopsis** sp., Okahandja, *Dinter 2530*, Type.

Aecidium albilabrum Kalchbr.

von Thuemen (1876 b) 363 ; Sacc. Syll. Fung. VII : 794 ; Liro (1902) 166 ; Kalchbrenner (1882 b) 26 ; P. & H. Sydow (1924) 151 ; Doidge (1927 a) 179.
on **Alepidea amatymbica** E. & Z., Boschberg, *MacOwan 1053*, Type (Thuem. Myc. Univ. 1627 ; S.A.M. 28744), 20769, 20752, Kew.
Alepidea capensis (Berg.) R. A. Dyer, Somerset East, *MacOwan*.
Alepidea serrata E. & Z., near Dordrecht, *Pienaar*, 2018.

Aecidium anceps Syd.

H. & P. Sydow (1901) (1) ; Sacc. Syll. Fung. XVII : 411 ; P. & H. Sydow (1924) 57 ; Doidge (1927 a) 172.
Aecidium Senecionis Desm. f. *Senecionis quinquelobi* Thuem., von Thuemen (1876 b) 425.
sub *Aecidium Senecionis* Desm., Kalchbrenner (1882 b) 26.
on **Senecio deltoideus** Less., Boschberg, *MacOwan ? 1033*, Kew, Type.
Senecio quinquelobus DC., Boschberg, *MacOwan 1026* (Thuem. Myc. Univ. 730) 20710, 20744, Kew ; Somerset East, *MacOwan 1033* (S.A.M. 28739) ; Bedford, *Doidge*, 10891, Kew.

Aecidium Ancylanthi P. Henn.

P. Hennings (1903) 61 ; Sacc. Syll. Fung. XVII : 414 ; P. & H. Sydow (1924) 73 ; Doidge (1927 a) 174.
on **Ancylanthus fulgidus** Welw., nr. Habungu R., *Baum 492*, Type.

Aecidium Antherici P. Henn. & Evans

Hennings (1908) 271 ; Sacc. Syll. Fung. XXI : 785 ; P. & H. Sydow (1924) 280 ; Doidge (1927 a) 187.

on **Anthericum** sp., Bethal, *Pole Evans*, 114, Type ; Rust der Winter, *Pole Evans*, 28541.

Aecidium Antholyzae Bubak

H. & P. Sydow (1911) 144 ; P. & H. Sydow (1924) 276 ; Sacc. Syll. Fung. XXIII : 897 ; van der Byl (1925 b) 193 ; Doidge (1927 a) 186 ; Verwoerd (1929 b) 5 ; Doidge & Bottomley (1931) 193 ; Nel (1942) 29.

on **Pentamenes aethiopica** (L.) Phill., Cape, *Bergius*, Type ; Kentani, *Pegler 2322*, 9105, Kew ; Knysna, *Duthie* (v. d. Byl 1318).

Aecidium australe Berk.

Berkeley (1843 b) 523 ; Sacc. Syll. Fung. VII : 785 ; P. & H. Sydow (1924) 217 ; Doidge (1927 a) 183.

on **Melilobium** sp., Uitenhage, *Zeyher 9*, Type, Kew.

Aecidium banketensis Hopkins

Hopkins (1938 a) 104, (1939 a) 47.

on **Veronia** sp., Banket, (Rh. 2831) Type, 30372.

Aecidium Barleriae Doidge

Doidge (1948 b) 895.

as *Aecidium* sp., Hopkins (1943) 180.

on **Barleria crassa** C.B.Cl., Concession, *Hopkins* (Rh. 3684) 33423.

Aecidium Baumianum P. Henn.

P. Hennings (1903) 163 ; Sacc. Syll. Fung. XVII : 414 ; P. & H. Sydow (1924) 83 ; Doidge (1927 a) 175 ; Hopkins (1938 a) 104, (1939 a) 34.

as *Aecidium Baumii* P. Henn., van der Byl (1925 b) 193 ; J. Phillips (1931) 159 ; Nel (1942) 29.

on **Canthium abbreviatum** S. Moore, nr. Habungu River, *Baum 486*, Type, 6884, Kew ; Salisbury (Rh. 303).

Canthium Mundtianum Cham. & Schlecht., Knysna, *Duthie* (Stell. 93 ; v. d. Byl 1173).

Aecidium benguellense Lagerh.

Lagerheim (1889) 128 ; Sacc. Syll. Fung. IX : 323 ; Lorrain Smith (1901) 473 ; P. & H. Sydow (1924) 89 ; Doidge (1948 b) 895.

on **Temnocalyx fuchsioides** (Welw.) Robyns, nr. Ivantâla, *Welwitsch 127*, Type.

Temnocalyx obovatus Robyns, Concession, *Hopkins* (Rh. 3682) 33424.

Aecidium bicolor Sacc.

P. Sydow (1899 a) (131) ; Sacc. Syll. Fung. XIV : 385 ; P. & H. Sydow (1924) 148 ; Doidge (1927 a) 179.

on **Maba natalensis** Harv., near Durban, *Medley Wood 6460*, Type, 336, 11195 ; Gogwana Mouth, Kentani, *Pegler 2123*, 34286.

Aecidium Brunswigiae P. Henn.

P. Hennings (1898) 294 ; Sacc. Syll. Fung. XVI : 346 ; P. & H. Sydow (1924) 278 ; Doidge (1927 a) 187.

on **Brunswigia** sp., Olifants Rivier, *Schlechter*, Type, Kew ; Pretoria, *Hean*, 32746.

? on **Brunswigia Cooperi** Bkr., Inanda, *Medley Wood 658* (as *Aecidium Amaryllidis* Cooke on *Crinum Cooperi* in Herb. Kew).

Aecidium Bulbinis P. Henn. & Evans

P. Hennings (1908) 271 ; Sacc. Syll. Fung. XXI : 785 ; P. & H. Sydow (1924) 282 ; Doidge (1927 a) 188.

on **Bulbine asphodeloides** R. & S., Bloemfontein, *Potts*, 11314 ; Mamathes, *Hean*, 33137.
Bulbine favosa R. & S., Stellenbosch, *Duthie* (v. d. Byl 2353).
Bulbine narcissifolia Salm., Zeerust, *Pole Evans*, 203, Type, Kew ; Groenkloof, *L. Turner*, 8829 ; Vereeniging, *Burtt Davy*, 17145, Kew.
?on **Bulbine aloöides** Willd., nr. Colenso, *Medley Wood 4101* (sub *Aecidium Crini* in Herb., Kew).

Aecidium Burtt-Davyi Doidge

Doidge (1939) 487.

on **Acacia stolonifera** Burch., Christiana, *Burtt Davy*, 1973, Type, 5581.

Aecidium capense Berk. & Curt.

Berkeley & Curtis (1858) 127 ; Sacc. Syll. Fung. VII : 828 ; P. & H. Sydow (1924) 360.

on ? **Asparagus** sp., on fruits, Cape of Good Hope, Kew [ex Herb., U.S. North Pacific Exploring Exped. (1853–1856) no. 141].

Doubtful species.

Aecidium Cardiospermi Cooke

Cooke (1882 a) 124 ; Sacc. Syll. Fung. VII : 785 ; P. & H. Sydow (1924) 179 ; Doidge (1927 a) 181.

on **Cardiospermum Helicacabum** Linn., Natal, *Medley Wood 537, Type, 2673*, 10282, 10283, Kew.

Aecidium Cephalariae Syd.

H. & P. Sydow (1912 a) 35 ; P. & H. Sydow (1924) 69 ; Sacc. Syll. Fung. XXIII : 890 ; Doidge (1927 a) 173.

on **Cephalaria ustulata** R. & S., Pretoria, *Pole Evans*, 475, Type, 12836, Kew.

Aecidium clarum Syd.

H. & P. Sydow (1912 b) 79 ; P. & H. Sydow (1924) 897 ; Sacc. Syll. Fung. XXIII : 897 ; H. Sydow (1926) 265 ; Doidge (1927 a) 186.

on **Ferraria viscaria** Schinz, Schaprioda, *Dinter 1910*, Type.

The host of this rust was originally recorded as *Moraea kitambensis* Bkr. (Sydow 1912 b) : later it was stated that the plant had been incorrectly determined and was *Ferraria viscaria* Schinz (Sydow 1926).

Aecidium Clematidis-brachiatae Doidge

Doidge (1927 a) 185, 209 ; Doidge & Bottomley (1931) 68.

on **Clematis brachiata** Thunb., Fountains, *Pole Evans*, 2337, Type, Kew, *Coetzee*, 2319 ; Silverton Ridge, *Bottomley*, 23401.

Aecidium clerodendricola P. Henn.

P. Hennings (1903) 163 ; Sacc. Syll. Fung. XVII : 418 ; P. & H. Sydow (1924) 117.
on **Clerodendron Buchneri** Gürke, Kuito River, *Baum 554*, Type, Kew.

Aecidium Cluytiae Doidge

Doidge (1927 a) 182, 209.
on **Cluytia virgata** Pax & K. Hoffm., Belfast, *Doidge*, 6968, Type.

Aecidium Conyzae-pinnatilobatae Syd.

P. & H. Sydow (1924) 32 ; Sacc. Syll. Fung. XXIII : 878 ; Doidge (1927 a) 168.
Aecidium MacOwanianum Thuem. f. *Conyzae pinnatilobatae* Thuem., von Thuemen (1875) 168.
on **Conyza pinnata** (L.f.) O. Ktze., nr. Somerset East, *MacOwan 1111*, Type (Thuem. Myc. Univ. 1023 ; Rabenh. Fung. Eur. 2626) 20794, Kew ; Kentani, *Pegler 1974*, 8855, Kew ; Natal, *Medley Wood 456, 2669*, 10295, 10296, Kew ; Balgowan, *Mogg*, 23391 ; Durban, *McClean*, 32296.
Conyza podocephala DC., Irene, 444 ; Pretoria, *Doidge*, 898 ; Garstfontein, *Pienaar*, 1436, 1213 ; Pretoria, *Howlett*, 8924.

Aecidium Cookeanum de Toni

Sacc. Syll. Fung. VII : 822 ; P. & H. Sydow (1924) 269 ; Doidge (1927 a) 186.
Aecidium Loranthi Cooke (1885 b) 13.
on **Loranthus Dregei** E. & Z., Kentani, *Pegler*, 1999, Kew.
Loranthus Zeyheri Harv., Wolhuter's Kop, *V. A. Putterill*, 10722 ; Silikats Nek, *Schilz*, 19870 ; Rustenburg Distr., *Pole Evans*, 17292 ; Pretoria Distr., *Verdoorn*, 26596 ; Hartebeestpoort, *Schweickerdt*, 27286 ; Brits, *Pole Evans*, 27291 ; Skeerpoort, *J. Phillips*, 30463.
Loranthus sp., Durban, *Medley Wood 830*, Kew.
Viscum nervosum Hochst., without locality (Fl. Afr. austr. 1044) Kew.

Aecidium Corycii Doidge

Doidge (1927 a) 190, 209.
on **Corycium nigrescens** Sond., Kokstad, *McLoughlin*, 12820, Type.

Aecidium Crini Kalchbr.

Cooke (1882 a) 124 ; Kalchbrenner (1882 b) 26 ; Sacc. Syll. Fung. VII : 827 ; P. Hennings (1908) 271 ; P. & H. Sydow (1924) 279 ; Eyles (1926) 638 ; Doidge (1927 a) 187 ; Hopkins (1938 a) 104, (1939 a) 14 ; Nel (1942) 29.
Aecidium Macarangae P. Hennings (1903) 163 ; Sacc. Syll. Fung. XVII : 436.
on **Crinum Forbesianum** Herb., Pietersburg, *Mogg*, 32277 ; Pretoria, *Hean*, 32747.
Crinum longifolium Thunb., Inanda, *Medley Wood 68*, Type, 10285, 13083, 22092, Kew ; Maritzburg, *Sim*, 9201 ; Kentani, *Pegler*, 11792 ; Pretoria, *Bottomley*, 12839 ; Tzaneen, *Burtt Davy*, 220.
Crinum Moorei Hk. f., Natal, *Medley Wood 2667*, 10284.
Crinum spp., Kubango, *Baum 387* ; Salisbury, *Eyles* (v. d. Byl 1969) 14011 ; Irene, *Pole Evans*, 15044 ; Pretoria, *Hean*, 32744, 32745 ; Potgietersrust, *Mellé*, 15045 ; Pietersburg, *Hardenburg*, 24915.
Cyrtanthus angustifolius Ait., Northern Transvaal, *Wickens*, 7389, Kew.

Aecidium Cussoniae Kalchbr.

Kalchbrenner (1882 b) 26 ; Cooke (1882 a) 123 ; Sacc. Syll. Fung. VII : 794 ; P. Sydow (1899 a) (131) ; P. & H. Sydow (1924) 159 ; Doidge (1927 a) 180 ; Doidge & Bottomley (1931) 15.

on **Cussonia spicata** Thunb., Inanda, *Medley Wood 88*, Type, 10026, 10287, Kew.

Aecidium Davyi Syd.

H. & P. Sydow (1912 a) 35 ; Sacc. Syll. Fung. XXIII : 873 ; P. & H. Sydow (1924) 121 ; Doidge (1927 a) 178 ; Doidge & Bottomley (1931) 30.

? as *Aecidium Urtica* Sch., van der Byl (1926 c) 288.

on **Cynoglossum grande** Dougl., Modderspruit, 694 ; Elim, *Bosman*, 26110.

Cynoglossum micranthum Desf., Inanda, *Medley Wood 643*, 350, 10280, Kew ; Lydenburg, *Burtt Davy*, 465, Type ; Skinner's Court, *Pole Evans*, 1010.

Aecidium Denekiae Doidge

Doidge (1927 a) 169, 209.

on **Denekia capensis** Thunb., Mooi River, *Mogg*, 11798, Type.

Aecidium Dielsii P. Henn.

P. Hennings (1902) 34 ; Sacc. Syll. Fung. XVII : 427 ; P. & H. Sydow (1924) 214 ; Doidge (1927 a) 183.

on **Crotalaria** sp., Cape, *Diels, Engler.*

Aecidium Dinteri Doidge

Doidge (1939) 487.

on **Acacia uncinata** Engl., Otjihavera-Okapuka, *Dinter 3488*, Type, 19867, 26686.

Aecidium Diospyri A. L. Sm.

Lorrain Smith (1898) 178 ; P. & H. Sydow (1924) 144 ; Doidge (1948 b) 895.

Aecidium albo-atrum P. Hennings (1903) 162 ; Sacc. Syll. Fung. XVII : 421.

on **Diospyros mespiliformis** Hochst., Kunene, *Baum 952 ;* Hippo Pool, Kruger National Park, *Liebenberg*, 32729.

Aecidium Dipcadi-viridis Doidge

Doidge (1948b)896.

on **Dipcadi viride** Moench., Mamathes, *Hean*, 33136, Type.

Aecidium Doidgei Syd.

H. & P. Sydow (1912 a) 36 ; P. & H. Sydow (1924) 288 ; Sacc. Syll. Fung. XXIII : 903 ; Doidge (1927 a) 189.

on **Scilla saturata** Bkr., Belfast, *Doidge*, 762, Type.

Aecidium dubiosum Syd.

H. & P. Sydow (1901) (1) ; Sacc. Syll. Fung. XVII : 410 ; P. & H. Sydow (1924) 59 ; Doidge (1927 a) 172.

Aecidium Senecionis Desm. f. *Senecionis mikanioidis* Thuem., von Thuemen (1877) 411.

as *Aecidium Senecionum* Desm., Kalchbrenner (1882 b) 26.

on **Senecio mikanioides** Otto, Boschberg, *MacOwan*, 20718 ; Natal, *Medley Wood 611, 642*, Type, 10309 ; Barberton, *Doidge*, 2010 ; Sunday Falls nr. Mont aux Sources, *Moore*, 20615.

Senecio pleistocephalus S. Moore, nr. Nelspruit, *Bottomley*, 32800.
Senecio tamoides DC., Inanda, *Medley Wood*, 828 ; Winkle Spruit, *Medley Wood*, 9090 ; Woodbush, *Doidge*, 20327 ; Xumeni Forest, *Doidge*, 32800, 27747.

Aecidium Elytropappi P. Henn.

P. Hennings (1898) 294 ; Sacc. Syll. Fung. XVI : 338 ; P. & H. Sydow (1924) 36 (erronee sub nomine *Aecidii Elythropappi*) ; Doidge (1927 a) 169 ; Nel (1942) 29.

on **Elytropappus rhinocerotis** Less., Bot Rivier, *Schlechter*, Type, Kew ; Cradock, *Mogg*, 7089, Kew, *Myburgh*, 7394 ; Roggeveld, *Skaife*, 10854 ; Grahamstown, *Mogg*, 12843, *Brett*, 32199 ; Zwartberg, *Pocock*, 21005 ; Kaaimansgat, *Giffen*, (v. d. Byl 2102) ; Riversdale, *Joubert* (v. d. Byl 2584 ; Stell. 951) ; Molenrivier, Ceres, *Dippenaar* (Stell. 996 ; v. d. Byl 2616).

Aecidium Englerianum P. Henn. & Lindau

Doidge (1927 a) 184 ; van der Byl (1925 b) 193 ; Lindau (1893) 43 ; Dietel (1928) 97 ; Doidge & Bottomley (1931) 68 ; J. Phillips (1931) 159 ; Nel (1942) 29.

on **Clematis brachiata** Thunb., Lemana, *Doidge*, 1796 ; Harrismith, *V. A. Putterill*, 11870 ; East London, *Munro*, 19862, *Smith*, 21102, *Rattray*, 21928 ; Tzaneen, *McCallum*, 32805.
Clematis sp., Knysna, *v. d. Byl 1395*.

Aecidium Evansii P. Henn.

P. Hennings (1908) 272 ; Sacc. Syll. Fung. XXI : 775 ; P. & H. Sydow (1924) 117 ; Doidge (1927 a) 178 ; Hopkins (1938 a) 104, (1939 a) 24.

on **Lippia asperifolia** Rich., Wonderboom, *Pole Evans*, 23 ; Pretoria, *Pole Evans*, 67, Type, *Burtt Davy*, 706 ; The Willows, *Pole Evans*, 5186, 5591, Kew ; Gazaland, *Swynnerton*, 10714 ; Horn's Nek, *Mogg*, 30240 ; Swartkoppies, *Burtt Davy*, 210, Kew ; nr. Makapan Caves, *K. M. Putterill*, 32758.
Lippia scaberrima Sond., Lichtenburg Distr., *Pienaar*, 1054.

Aecidium Fluggeae Doidge

Doidge (1927 a) 182, 210.

on **Fluggea virosa** (Roxb.) Baill., Buffelspan, Pillansberg, *Pole Evans*, 17298, Type.

?Aecidium flustra Berk.

Cooke (1882 a) 124, (1892) 110 ; Sacc. Syll. Fung. XXIII : 876 ; P. & H. Sydow (1924) 25 ; Doidge (1927 a) 168, 170.

on **Aster bakerianus** Burtt Davy, Inanda, *Medley Wood 638*, Kew.

Aecidium Garckeanum P. Henn.

P. Hennings (1892) 372 ; P. & H. Sydow (1924) 172 ; Doidge (1927 a) 180 ; Hopkins (1938 a) 104, (1939 a) 22.
Aecidium Hibisci Cooke (1892) 110.

on **Hibiscus cannabinus** Linn., Natal, *Medley Wood 3495*, Kew ; Barberton, *Mogg*, 7809, *Lansdell*, 11666 ; Schagen, *Liebenberg*, 26052 ; Alkmaar, *Wager*, 26206 ; Entabene, *Bosman*, 26109 ; Salisbury (Rh. 1104) ; Marikana, *Turner*, 33140.

Aecidium Gomphostigmae Doidge

Doidge (1927 a) 179, 210.

on **Gomphostigma virgata** (L.f.) O. Ktze., Bushman's River Valley, *Medley Wood*, 838.

Aecidium habunguense P. Henn.

Hennings (1903) 160 (ex errore sub *Aec. habunguensis*) ; Sacc. Syll. Fung. XVII : 416 ; P. & H. Sydow (1924) 108 ; Doidge (1927 a) 177 ; Hopkins (1932) 464, (1938 a) 104, (1939 a) 42.

on **Solanum giganteum** Jacq., The Wilderness, *Mogg*, 25352.
Solanum incanum Linn., Springbok Flats, *Burtt Davy*, 941 ; Garstfontein, *Pienaar*, 1959 ; Melsetter, *Hopkins*.
Solanum indicum Linn., Gazaland, *Swynnerton*, 10711.
Solanum Melongena Linn. var. **esculentum** Nees, Salisbury (Rh. 1746).
Solanum panduraeforme E. Mey., Habungu River, *Baum 470*, Type ; Heidelberg Distr., *Burtt Davy*, 253 ; Witfontein, Rustenburg Distr., *Thomsen*, 726 ; Garstfontein, *Pienaar*, 1215, 1381, 6584.
Solanum supinum Dun., Lichtenburg Distr., *Pienaar*, 1049.
Solanum sp., Umbelusi, *Howard*, 649 ; Hartebeestpoort, *Young*, 21021.

Aecidium Hartwegiae Thuem.

Von Thuemen (1877) 411, (1878 b) 91 ; Kalchbrenner (1882 b) 26 ; Sacc. Syll. Fung. VII : 827 ; P. & H. Sydow (1924) 283 ; Doidge (1927 a) 188 ; Hopkins (1938 a) 104, (1939 a) 10.

Aecidium Chlorophyti Kalchbr. in sched.
Aecidium Chlorophyti Har. & Pat., Hopkins (1943) 182.

on **Chlorophytum comosum** Bkr., Boschberg, *MacOwan & Tuck* (MacOwan 1022, Type ; Thuem. Myc. Univ. 824 ; S.A.M. 28740) 20740, 20751, 20768, Kew.
Chlorophytum sp., Shamva (Rh. 2840).

Aecidium Helichrysi Doidge

Doidge (1927 a) 170, 210.

on **Helichrysum latifolium** (Thunb.) Less., Inanda, *Medley Wood 592*, 10478, Kew ; Mont aux Sources, *Moore*, 20632.
Helichrysum miconiaefolium DC., Belfast, *Doidge*, 567.
Helichrysum nudifolium (L.) Less. var. **leiopodium** (DC.) Meeser, Lake Chrissie, *Pole Evans*, 10128, Type Carolina Distr., *Burtt Davy*, 456.
Helichrysum petiolatum DC., Natal, *Medley Wood 35, 73*, 10477, 10321, Kew : Boschberg, *MacOwan 1235*, Kew.
Helichrysum sp., Gordon's Bay, *Loseby* (Stell. 355).

Aecidium heliotropicolum Talbot

in Doidge (1948b) 896.

on **Heliotropium Nelsoni** Wright, Potchefstroom Distr., *Louw*, 35016, Type

Aecidium Hoffmannii Syd.

P. & H. Sydow (1924) 32.

on **Conyza limosa** O. Hoffm., Maramba, *Baum 434*, Type.

Aecidium Impatientis-capensis Doidge

Doidge (1927 a) 181, 210.

on **Impatiens Duthieae** L. Bolus, Edendale, *Doidge*, 1990, Type

Aecidium incertum Syd.

H. & P. Sydow (1901 a) (1) ; Sacc. Syll. Fung. XVII : 411 ; P. & H. Sydow (1924) 57 ; Doidge (1927 a) 171. (1948 b) 896

Aecidium Senecionis Desm. f. *Senecio-napifolii* Thuem., von Thuemen (1878 a) 355.

on **Senecio concolor** DC., Bulwer, *Lansdell*, 9123.

Senecio sp., Boschberg, *MacOwan*, Type (Thuem. Myc. Univ. 1118) 20850, 20713, Kew.

Aecidium kakelense P. Henn.

P. Hennings (1903) 116 ; P. & H. Sydow (1924) 189 ; Doidge (1927 a) 182, (1948b) 897 ; Hopkins (1943) 184.

on **Euphorbia** sp., near **Eu. cyparissioides** Pax, Rusapi (Rh. 4292) 33426 ; Marandellas, *Hopkins* (Rh. 4822) 33428.

Euphorbia natalensis Bernh., Lidgetton, *Mogg*, 17034.

Euphorbia striata Thunb., Mooi River, *Mogg*, 11797.

Euphorbia sp., near Kakele, *Baum 200*, Type.

Aecidium Kraussiae Syd.

P. & H. Sydow (1924) 79 ; Doidge (1927 a) 174.

sub *Aecidium albilabrum* Kalchbr., Medley Wood (1898) 10.

on **Kraussia floribunda** Harv., Inanda, *Medley Wood*, Type, 358, 819, 10278, 10324 ; Verulam, *Medley Wood 21*, 13084, *Pole Evans*, 6802 ; Stella Bush, *Doidge*, 1668 ; Amanzimtoti, *Doidge*, 1669 ; Winkle Spruit, *Pole Evans*, 2392 ; Umgeni Beach, *Doidge*, 2527, Kew ; Isipingo, *Doidge*, 6645, *Wager*, 33096 ; Tongaat, *v. d. Byl*, 6948.

Kraussia Schlechteri (K. Schum.) Bull., Kruger National Park, *Liebenberg*, 32730 ; Sabie, *Mogg*, 32272, *Wager*, 32408.

Aecidium Lebeckiae P. Henn.

P. Hennings (1898) 294 ; Sacc. Syll. Fung. XVI : 328 ; P. & H. Sydow (1924) 216 ; Doidge (1927 a) 183.

? as *Puccinia Lebeckiae* P. Henn. in Herb. Kew.

? as *Aecidium* sp., Nel (1942) 31

on **Lebeckia Simsiana** E. & Z., near Windhoek, *Schlechter*, Type, ? Kew ; Piquetberg, *H. Bolus*, Kew.

? on **Lebeckia sericea** Thunb., van Rhynsdorp, *v. d. Byl 2630*.

Aecidium litakunensis Doidge

Doidge (1939) 487.

on **Acacia litakunensis** Burch., between Rustenburg and Northam, *Scott*, 27294, Type ; Bechuanaland, *Burtt Davy*, 2443.

Aecidium longaense P. Henn.

P. Hennings (1903) 161 ; Sacc. Syll. Fung. XVII : 420 ; P. & H. Sydow (1924) 142.

on **Jasminum microphyllum** Bkr., Longa River, *Baum 568*, Type, Kew.

Aecidium MacOwanianum Thuem.

Von Thuemen (1875) 380 ; Sacc. Syll. Fung. VII : 800 ; P. & H. Sydow (1924) 31 ; Doidge (1927 a) 168 ; Nel (1942) 31.

sub *Aecidium Compositarum* DC., Kalchbrenner (1882 b) 26 ; P. Sydow (1899 a) (131) ; Nel (1942) 29.

on **Conyza ivaefolia** Less., Boschberg, *MacOwan 1032*, *1037*, Type, *1318* (Thuem. Myc. Univ. 426 ; Rabenh. Wint. Fung. Eur. 3725 ; S.A.M. 28738) 4065, 20709, 20741, 20753, Kew ; Inanda, *Medley Wood 573*, Kew ; Kentani, *Pegler*, 11789 ; Umsindusi R., Maritzburg, *Pole Evans*, 1408, Kew ; Natal, *Pole Evans*, 1458 ; Henley, *Doidge*, 9088 ; Equeefa, *Fuller*, 1538 ; Hennops River, *Pole Evans*, 1052, *Doidge*, 2036 ; Nels River, *Liebenberg*, 26009 ; Krantzkloof, *v. d. Byl 118*, *966* ; The Willows, *Bottomley*, 32639.

Conyza ulmifolia (Burm.) O. Ktze., Inanda, *Medley Wood 18*, 10294, 32020 ; Winkle Spruit, *Pole Evans*, 1398 ; Winter's Kloof, *Doidge*, 1616 ; Kentani, *Pegler 2361*, 9118 ; Nelspruit, *Liebenberg*, 25992 ; Gordons Bay, *Loseby*, (Stell. 354 ; v. d. Byl 2587) ; Syd. Ured. 498.

Aecidium Menyharthi P. Henn.

P. Hennings (1906) 702 ; Sacc. Syll. Fung. XXI : 761 ; P. & H. Sydow (1924) 217 ; Doidge (1927 a) 183 ; Cardoso (1945) 160.

on **Lonchocarpus** sp., Boroma, *Menyharth* (Type in Herb. bot. Mus. Univ. Zurich).

Aecidium Metalasiae Syd.

H. & P. Sydow (1912 a) 35 ; Sacc. Syll. Fung. XXIII : 884 ; P. & H. Sydow (1924) 48 ; Doidge (1927 a) 170.

on **Metalasia muricata** Less., Lion's Head, *Pole Evans*, 686, Type.

Aecidium Moggii Doidge

Doidge (1939) 488.

on **Senecio coronatus** Harv., Pretoria, *Mogg*, 23636, Type ; Groenkloof, *Mogg*, 30907.

Aecidium Nestlerae Doidge

Doidge (1948 b) 897.

on **Nestlera conferta** DC., Kafferfontein, near Fauresmith, *Kies*, 34096, Type.

Aecidium Nidorellae Doidge

Doidge (1927 a) 171, 210.

on **Nidorella hottentotica** DC. var. **lanata** Harv., Irene, *Pole Evans*, 15048, Type.

Aecidium Ornithogaleum Bubak

Doidge (1927 a) 189.

on **Ornithogalum Eckloni** Schl., Armoedsvlakte, *Mogg*, 14239 ; Milner Park, Johannesburg, *Young*, 21022 ; Platrivier, *Pienaar*, 1941 ; Harrismith, *Wisely*, 30945.

Aecidium Osteospermi Doidge

Doidge (1927 a) 171, 211.

on **Osteospermum moniliforme** Linn., Lions Head, *Saxton*, 6587, Type ; Bredasdorp, *C. A. Smith*, 22839.

Aecidium Oxalidis Thuem.

Von Thuemen (1876 b) 425 ; Sacc. Syll. Fung. VII : 783 ; P. Hennings (1898) 293 ; P. & H. Sydow (1924) 335 ; van der Byl (1925 b) 193 ; Doidge (1927 a) 137 ; Nel (1942) 30 ; Doidge & Bottomley (1931) 57 ; J. Phillips (1931) 159.

? sub *Trichobasis rubigo-vera* Lév., Berkeley (1876 a) 175.

sub *Uromyces Oxalidis* Lév., Kalchbrenner (1882 b) 21.

on **Oxalis Bowiei** Lindl., Boschberg, *MacOwan 1142*, *1226* (Medley Wood 453 ; S.A.M. 28736) 20770, 20793, 20737, 11196, 10300, Kew.
Oxalis breviscapa Jacq., Knysna, *Duthie* (v. d. Byl 1175).
Oxalis obliquifolia Steud., Mbabane, *Burtt Davy*, 188.
Oxalis obtusa Jacq., Windhoek, *Schlechter*.
Oxalis purpurea Linn., Wellington, *Stoneman*, 506.
Oxalis spp., Harrismith, *v. d. Merwe*, 1252 ; Rondebosch, *E. L. Stephens*, 25464 ; Hopefield, *v. d. Byl 1922* ; Stellenbosch, *Bosman* (v. d. Byl 2041), *Verwoerd*, (Stell. 75) ; ? foot of Table Mt., *Eaton* ; Langeberg, *Pole Evans*, 21023.

Aecidium Pachystigmae Doidge

Doidge (1927 a) 175, 211 ; Hopkins (1938 a) 105 ; Nel (1942) 30.
on **Pygmaeothamnus Zeyheri** (Sond.) Robyns, Hennops River, *Pole Evans*, 1063, Type, Kew, *Mogg*, 23136 ; Kaapmuiden, *Wager*, 7731 ; Olifantsfontein, *Pienaar*, 12818 ; Lichtenberg, *Liebenberg*, 20671.
Fadogia stenophylla Welw., Salisbury, *Eyles 5335* (v. d. Byl 2525).

Aecidium Pentziae-globosae Doidge

Doidge (1948 b) 897.
on **Pentzia globosa** Less, on branches, nr. Windsorton, *Acocks*, 30661, Type.

Aecidium permultum Syd.

H. & P. Sydow (1912 a) 36 ; P. & H. Sydow (1924) 58 ; Sacc. Syll. Fung. XXIII : 886 ; Doidge (1927 a) 172.
on **Senecio fraudulentus** Phill. & Sm., Ventersdorp, *Burtt Davy*, 750, Type ; Bethal, *Pole Evans*, 70 ; Mont aux Sources, *Moore*, 21016 ; Debbe's Ravine, *Bosman*, 29849 ; Haenertsburg, *K. M. Putterill*, 32753.

Aecidium Pienarii Doidge

Doidge (1927 a) 175, 211.
on **Pavetta assimilis** Sond., Garstfontein, *Pienaar*, 1259, Type.

Aecidium Plectranthi Barcl.

Doidge (1927 a) 177 ; Hopkins (1938 a) 105, (1939 a) 34.
on **Plectranthus floribundus** N.E.Br., Salisbury, *Eyles* (Rh. 1866, 1878 ; v. d. Byl 1805).
Plectranthus spp., Westfalia, *Doidge*, 20330 ; Salisbury, *Eyles 2037*, 14012 ; Sinoia (Rh. 2238).

Aecidium Plectroniae Cooke

Cooke (1882 a) 124 ; Sacc. Syll. Fung. VII : 795 ; Medley Wood (1906) 16 ; Doidge (1927 a) 176.
on **Canthium Gueinzii** Sond., Natal, *Medley Wood 577*, Type, 10304, 10305, 10306, Kew ; Eshowe, *Laughton*, 33524.
Canthium Mundtianum Cham. & Schlecht., New Agatha, *Pole Evans*, 11030.
Canthium sp., Belfast, *Doidge*, 553.

Aecidium plectroniicola P. Henn.

P. Hennings (1903) 162 ; Sacc. Syll. Fung. XVII : 413 ; P. & H. Sydow (1924) 82 ; Doidge (1927 a) 176.
on **Canthium huillense** Hiern, near Napalanka, Longa River, *Baum 580 b*, Type.

Aecidium Pottsii Doidge

Doidge (1927 a) 182, 211.

on **Euphorbia mauretanica** Linn., Bloemfontein, *Potts*, 11315, Type ; Fauresmith, *Verdoorn*, 26165, *Henrici*, 25900.

Aecidium pretoriense Doidge

Doidge (1927 a) 174, 211.

on **Oldenlandia amatymbica** (Hochst.) O. Ktze., Groenkloof, *Pole Evans*, 12521, 15043, Type ; Garstfontein, *Pienaar*, 1947, Kew ; Klapperkop, *Mogg*, 29848.

Aecidium Pychnostachydis (Kalchbr.) Syd.

P. & H. Sydow (1924) 567 ; Doidge (1927 a) 178 ; Hopkins (1938 a) 105, (1939 a) 37.

Uredo Pychnostachydis Kalchbrenner (1882 b) 25 ; Sacc. Syll. Fung. VII : 859.

on **Pychnostachys purpurascens** Briq., Lydenburg, *Burtt Davy*, 437.

Pychnostachys reticulata Benth., Inanda, *Medley Wood 30*, Type, 10594, 11222, Kew ; Salisbury (Rh. 324).

Aecidium Ranunculacearum DC.

Doidge (1927 a) 185.

on **Ranunculus pubescens** Thunb., Potchefstroom, *Pole Evans*, 196 ; Riet Vlei, 540 ; Bloemfontein, *Moraile*, 23214.

Aecidium Relhaniae Dipp.

Dippenaar (1931 c) 289.

on **Relhania ericoides** Cass., Stellenbosch, *Dippenaar*, Type (Stell. 530, 886 : v. d. Byl 2595).

Aecidium resinaecolum (Rud.) Wint.

Winter (1884 c) 264 ; Sacc. Syll. Fung. VII : 788 ; P. Hennings (1898) 294 ; P. & H. Sydow (1924) 220 ; Doidge (1927 a) 184.

Caeoma (*Aecidium*) *resinaecolum* Rudolphi (1829) 389.

Aecidium Rafniae MacOwan in sched.

on **Rafnia amplexicaulis** E. Mey., nr. Cape Town, *MacOwan*.

Rafnia perfoliata E. Mey., Cape, *MacOwan*, Type (Rabenh. Wint. Fung. Eur. 3321) 3661, 20763, Kew.

Rafnia spp., Swartberg, Cape, *Pocock*, 21017 ; Piquetberg, *Schlechter*, Kew.

Leguminosae undet., interior of Cape, *Niven*.

Var. **tumefaciens** Wint.

Winter (1884 c) 264 ; Sacc. Syll. Fung. VII : 788 ; van der Byl (1922 d) 285 ; P. & H. Sydow (1924) 220 ; Doidge (1927 a) 184 ; Marloth (1913) 34 ; Nel (1942) 30.

on **Rafnia angulata** Thunb., Cape, *MacOwan*, Type (Rabenh. Wint. Fung. Eur. 3838) 4178, 20712, Kew ; Cape Town, *Saxton*, (S.A.M. 1152) 389 ; Stellenbosch, *v. d. Byl*, 1837, *Marais* (v. d. Byl 1919), *Verwoerd* (Stell. 185) ; Klapmuts, *v. d. Byl* 6822, 7729.

Aecidium Royenae Cooke & Mass.

Cooke (1889) 70 ; P. Sydow (1899 a) (131) ; Sacc. Syll. Fung. IX : 323 ; Hennings (1908) 272 ; P. & H. Sydow (1924) 149 ; van der Byl (1926 c) 288 ; Doidge (1927 a) 179 ; Hopkins (1938 a) 105, (1939 a) 4 ; Nel (1942) 30.

Aecidium Welwitschii Lagerheim (1899) 134 ; Sacc. Syll. Fung. IX : 323 ; Lorrain Smith (1901) 473.

on **Royena pallens** Thunb., near Durban, *Medley Wood 4078*, Type, 327, 792, Kew ; Monimo, *Welwitsch 128 ;* Rikatli, *Junod*, 11683 ; Salisbury, *Eyles 3223*, *3963* (v. d. Byl 1718) 15521, 20643 ; Durban, *v. d. Byl 119 ;* Winkle Spruit, *v. d. Byl 488*, 31777.
Royena villosa Linn., Tzaneen, *Pole Evans*, 171.

Aecidium Schlechterianum P. Henn.

P. Hennings (1898) 294 ; Sacc. Syll. Fung. XVI : 348 ; P. & H. Sydow (1924) 281 ; Doidge (1927 a) 188.
on **Asparagus asparagoides** (L.) Druce, nr. Olifant Rivier, *Schlechter*, Type, Kew.

Aecidium Serrae Syd.

H. & P. Sydow (1912 a) 35 ; P. & H. Sydow (1924) 58 ; Sacc. Syll. Fung. XXIII : 887 ; Doidge (1927 a) 169.
on **Dimorphotheca Zeyheri** Sond., Smithfield, *v. d. Merwe*, 1048.
Dimorphotheca sp., Belfast, *Doidge*, 761, Type.

Aecidium spinicolum Doidge

Doidge (1948 b) 897.
on **Acacia** sp., on spines, Weenen, *Pentz*, 30923, Type.

Aecidium talinophilum Syd.

P. & H. Sydow (1924) 263 ; Sacc. Syll. Fung. XXIII : 905 ; Doidge (1927 a) 186.
on **Talinum caffrum** (Thunb.) E. & Z., Anasberge, *Dinter 187 a*, Type.

Aecidium Tetragoniae Doidge

Doidge (1939) 488.
on **Tetragonia arbuscula** Fenzl., Fauresmith, *Henrici*, 25892, Type.

Aecidium Tinneae P. Henn.

P. Hennings (1903) 162 ; Sacc. Syll. Fung. XVII : 417 ; P. & H. Sydow (1924) 116.
on **Tinnea eriocalyx** Welw., nr. Napalanka, on the Longa River, *Baum 576*, Type.

Aecidium Transvaaliae P. Henn. & Evans

P. Hennings (1908) 272 ; Sacc. Syll. Fung. XXI : 769 ; P. & H. Sydow (1924) 82 ; Doidge (1927 a) 175 ; Hopkins (1938 a) 105, (1939 a) 31.
on **Pavetta assimilis** Sond., Mazoe, *Eyles 5281* (v. d. Byl 2506).
Pavetta spp., White River, *Burtt Davy* 87, Kew, Type ; Salisbury, *Eyles 2040* (v. d. Byl 1802) 14013 ; Hippo Pool, Kruger National Park, *Liebenberg*, 30995.

Aecidium tubulosum Pat. & Gaill.

P. & H. Sydow (1924) 312.
Aecidium Uleanum Pazschke, P. Hennings (1903) 161.
on **Solanum Melongena** Linn., Kampuluvu and Longa River, *Baum 735*.

Aecidium Urgineae P. Henn. & Evans.

P. Hennings (1908) 272 ; Sacc. Syll. Fung. XXI : 784 : P. & H. Sydow (1924) 289 ; Doidge (1927 a) 189.
on **Urginea** sp., Emigratie, *Pole Evans*, 109, Type.

Aecidium Vangueriae Cooke

Cooke (1882 a) 124 ; Sacc. Syll. Fung. VII : 795 ; P. Sydow (1899 a) (131) ; P. Hennings (1908) 272 ; Medley Wood (1906) 16 ; P. & H. Sydow (1924) 89 ; van der Byl (1926 c) 288 ; Doidge (1927 a) 176 ; Hopkins (1938 a) 105, (1939 a) 47 ; Nel (1942) 31.

on **Lagynias discolor** E. Mey., Zwartkei River Valley, *Galpin 8265*, 23089.

Pachystigma latifolium Sond., Scottsburgh, *Pole Evans*, 6832 ; Natal, *Medley Wood 540*, Kew ; Durban, *v. d. Byl 120 ;* Illovo, *v. d. Merwe* (v. d. Byl 490) 31778.

Vangueria infausta Burch., Inanda, *Medley Wood 537*, Type, 785, 10317, 10318, Kew ; Durban, *Medley Wood 3929*, 338, 11214, 32021, Kew ; Amanzimtoti, *Doidge*, 1657 ; Isipingo, *Doidge*, 6637 ; Scottsburgh, *Pole Evans*, 6838 ; near Eshowe, *Gerstner*, 28868 ; Magoeba's Kloof, *Burtt Davy*, 136, 180 ; Silverton, *Doidge*, 919, Kew, *Howlett*, 8972 ; Garstfontein, *Pienaar*, 1204, *Erasmus*, 6651 ; Edendal, Pretoria Distr., *Lounsbury*, 11371 ; Nyamandhlovu, *Eyles*, 15519 ; Schagen, *Liebenberg*, 26342 ; Salisbury (Rh. 627) ; Warmbaths, *Marloth 3802*, 33593.

Aecidium Vernoniae-monocephalae Doidge

Doidge (1927 a) 173, 212.

on **Vernonia monocephala** Harv., Kaalfontein, *Pole Evans*, 10041, Type.

Aecidium Vernoniae-podocomae Doidge

Doidge (1927 a) 173, 212 ; Hopkins (1938 a) 105 ; Nel (1942) 31.

on **Vernonia podocoma** Sch. Bip., Lemana, *Pole Evans*, 498 ; Barberton, *Pole Evans*, 1166, 1857, Type ; New Agatha, *Doidge*, 1820 ; Zimbabwe, *v. d. Byl 2468 ;* Woodbush, *Mogg*, 30908 ; Waterval, 30 miles from Nelspruit, *Liebenberg*, 33054 ; Nelspruit, *Loest*, 33602 ; Klein Australië, Louis Trichardt, *Bottomley*, 26111.

Aecidium Viborgiae P. Henn.

P. Hennings (1898) 295 ; Sacc. Syll. Fung. XVI : 328 ; P. & H. Sydow (1924) 221 ; van der Byl (1928 a) 181 ; Nel (1942) 31.

Uredo Viborgiae P. Hennings (1898) 295 ; Sacc. Syll. Fung. XVI : 353.

on **Wiborgia armata** Harv., van Rhynsdorp, *Schlechter*, Type, Kew ; Tulbagh, *Dippenaar*, (Stell. 323 ; v. d. Byl 2478).

Wiborgia obcordata Thunb., Olifant Rivier, *Schlechter*.

Aecidium Vignae Cooke

Cooke (1879 b) 71 ; Kalchbrenner & Cooke (1880) 21 ; Sacc. Syll. Fung. VII : 831 ; P. & H. Sydow (1924) 222; Doidge (1927 a) 184; Hopkins (1938 a) 105.

on **Sphenostylis marginata** E. Mey., Inanda, *Medley Wood 407*, Type, 367, 10319, 11202, 13086, Kew.

Sphenostylis sp., Salisbury, *Eyles 4299, 7108*, Kew.

Aecidium Vitis A. L. Sm.

Doidge (1927 a) 180 ; Hopkins (1938 a) 105, (1939 a) 10, 49 ; Nel (1942) 31.

on **Cissus Rhodesiae** Gilg. & Brandt, Gwebi (Rh. 1107) ; Mazoe (Rh. 2535).

Cissus zombensis Gilg. & Brandt, Salisbury (Rh. 1722, 1777 ; v. d. Byl 2054).

Vitis spp., Mackeke, *Eyles 2009* (v. d. Byl 2061) 14001 ; ? Fort Beaufort, *Pole Evans*, 293.

Aecidium Woodianum Doidge

Doidge (1927 a) 170, 212.
?sub *Aecidium flustra* Berk., Cooke (1882 a) 124.
on **Aster Bakerianus** Burtt Davy, Natal, *Medley Wood*, Type, 10292, 10293 ; Belfast, *Doidge*, 556 ; Klapper Kop, *Mogg*, 23652.
? on **Aster Peglerae** Bolus, Pilgrim's Rest, *Mogg*, 30910.

Aecidium sp.

sub *Uromyces Scrophulariae* DC. in Herb. Kew.
on **Sutera floribunda** O. Ktze., Umzinyati, *Medley Wood 562*, Kew.

Aecidium spp.

Eyles (1926) 643, 645, 633 ; Hopkins (1930) 524, (1932) 464, Nel (1942) 31.
on **Ekebergia** sp., S. Rhodesia.
Peucedanum sp., Salisbury, *Eyles* (v. d. Byl 1809).
Pavetta sp., Salisbury, *Eyles*.

Aecidium spp.

Welwitsch & Currey (1868) 293 ; Lorrain Smith (1901) 472.
on **Ebenaceae** undet., Morro de Monimo, *Welwitsch 128*.
Euphorbia macra Hiern, nr. Lopollo, *Welwitsch 128 a*.
Rubiaceae undet., Ivantâla, *Welwitsch 128*.

Caeoma Heteromorphae Doidge

Doidge (1927 a) 190, 212.
on **Heteromorpha arborescens** Cham. & Schl., Port Elizabeth, Drège, Type, 9822 ; Gum Tree, *Vels*, 28509 ; Drakensberg, *Gore Brown*, 32780.

Caeoma Lichtensteiniae Doidge

Doidge (1941 b) 229.
on **Lichtensteinia** sp., Salisbury, *Eyles 1966*, Type, 14009.

Uredo africana Lagerh.

Lagerheim (1889) 135 ; Sacc. Syll. Fung. IX : 330 ; Lorrain Smith (1901) 473 ; P. & H. Sydow (1924) 409.
on **Fadogia Cienkowskii** Schw., between the River Ema and Lake Ivantâla, *Welwitsch 130*, Type.

Uredo Asclepiadis-fruticosae Doidge

Doidge (1927 a) 192, 212 (erronee *U. Asclepiadis-fruticosi*)
on **Asclepias fruticosa** Linn., Armadillo Creek, *Burtt Davy*, 1938, Type.

Uredo Augeae Pole Evans

Pole Evans (1915 a) 115 ; P. & H. Sydow (1924) 465.
Uredo Augeae Syd., H. & P. Sydow (1916) 259 ; Sacc. Syll. Fung. XXIII : 949.
on **Augea capensis** Thunb., Luderitzbucht, *Pearson*, 8406, Type, and *Engler ;* Laingsburg, *Burtt Davy*, 18086.

Uredo Balsamodendri Cooke

Cooke (1890 b) 6 : P. Sydow (1899 a) (132) ; Sacc. Syll. Fung. IX : 328 ; P. & H. Sydow (1924) 464 ; Doidge (1927 a) 194.
on **Commiphora caryaefolia** Oliv., Durban, *Medley Wood 689*, Type, 796, 10578, Kew.

Uredo Brachylaenae Doidge

Doidge (1927 a) 190, 213 ; Doidge & Bottomley (1931) 65.
on **Brachylaena discolor** DC., Umgeni Beach, *Doidge*, 2525, Type ; Durban, *v. d. Byl*, 11026 ; Verulam, *Pole Evans*, 6842.
Brachylaena elliptica Less., Waterkloof Ravine, *Doidge*, 29861.
Brachylaena neriifolia (L.) R. Br., Bain's Kloof, *Doidge*, 982, 1222.
Brachylaena rotundata S. Moore, Wonderboom, *Repton*, 34177.
Brachylaena transvaalensis Phill. & Schw., Lemana, *Doidge*, 1821.
Brachylaena sp., Meintjies Kop, *Smith & Ward*, 26102.

Uredo Caricis-petitianae Doidge

Doidge (1939) 507.
? sub *Puccinia caricina* DC., Kalchbrenner (1882 b) 22.
on **Carex petitiana** A. Rich., Xumeni Forest, *Morgan & Doidge*, 29830, Type, 30107 ; ? Somerset East, *MacOwan 1353*.

Uredo Carpodini P. Henn.

Hennings (1903) 158 ; Sacc. Syll. Fung. XVII : 442 ; P. & H. Sydow (1924) 430.
on **Carpodinus leucanthus** K. Schum., between Kutue and Sobi, *Baum 765*, Type.

Uredo Celastrineae Cooke & Mass.

Cooke (1889) 70 ; P. Sydow (1899 a) (132) ; Sacc. Syll. Fung. IX : 329 ; P. & H. Sydow (1924) 575 ; Doidge (1927 a) 199.
on **Salacia Kraussii** Hochst., nr. Durban, *Medley Wood 4028*, Type, 359, 991, 31823, Kew. Fide Sydow, l.c., this is an *Aecidium*.

Uredo combreticola Doidge

Doidge (1939) 506.
on **Combretum Zeyheri** Sond., Nelspruit, *Liebenberg*, 26038.

Uredo Commelinae Kalchbr.

Kalchbrenner (1882 b) 24 ; Sacc. Syll. Fung. VII : 845 ; P. & H. Sydow (1924) 519 ; Doidge (1927 a) 197.
on **Aneilema Dregeanum** Kunth, Natal, *Medley Wood 231*, Kew.
Commelina madagascarica C.B.Cl., Inanda, *Medley Wood 231*, Type, 10583, 11204.
Commelina sp., Table Mt., Natal, *Fuller*, 1677 ; Stellenbosch, *Verwoerd* (Stell. 378).

Uredo crotalariicola P. Henn.

P. Hennings (1903) 158 : P. & H. Sydow (1924) 476 ; Doidge (1927 a) 195.
on **Crotalaria lachnoclada** Harms., Longa River, *Baum 671*, Type, 6882, Kew.

Uredo Cryptolepidis Cooke

Cooke (1890 b) 6 ; Sacc. Syll. Fung. IX : 330 ; P. & H. Sydow (1924) 426 ; Doidge (1927 a) 192.

on **Cryptolepis capensis** Schltr., Kentani, *Pegler 2356*, 9164 ; Bluff, Durban, *Pole Evans & Doidge*, 1603, 1664 ; Umbogintwini, *McClean*, 25468 ; Great Noodsberg, *Medley Wood 672*, Type, 31827, 32449, Kew.

Cryptolepis obtusa N.E.Br., Lourenço Marques 665 ; Sabie, *Mogg*, 32271.

Uredo Cussoniae Cooke

Cooke (1888 a) 70 ; Sacc. Syll. Fung. VII : 846 ; P. Sydow (1899 a) (132) ; P. & H. Sydow (1924) 441 ; Doidge (1927 a) 192.

on **Cussonia** sp., Inanda, *Medley Wood 3494*, Type, 362, Kew.

Uredo cypericola P. Henn.

Doidge (1927 a) 197 ; Cardoso (1945) 163.

? sub *Puccinia caricina* DC., Kalchbrenner (1882 b) 22.

? sub *Uromyces Cyperi* P. Henn., van der Byl (1922 d) 285, (1925 b) 195 ; J. Phillips (1931) 159 ; Nel (1942) 51.

? sub *Puccinia Cyperi* Arth., van der Byl (1926 c) 288 ; Nel (1942) 108.

on **Cyperus difformis** Linn., Pienaar's River, *Doidge & Bottomley*, 29929.

Cyperus longus Linn. var. **tenuiflorus** Boeck., Natal, *Medley Wood 4*, 10579 ; ? Somerset East, *MacOwan 1018*, Kew ; Tzaneen, *Doidge*, 21339.

Cyperus spp., Knysna, *Duthie* (v. d. Byl 2103) ; Stellenbosch, *v. d. Byl 260*, *Verwoerd* (Stell. 149) ; Thornville Junction, *Doidge*, 858, 859 ; Matotla, 677 ; Garstfontein, *Wager*, 23456 ; Karino, *Wager*, 23414 ; Johannesburg, *Young*, 21018 ; Winkle Spruit, *Pole Evans*, 5646 ; ? Inanda, *Medley Wood 670*, Kew ; Stella Bush, *v. d. Byl*, 31928 ; Hopefield, *v. d. Byl 260 ;* Woodbush, *v. d. Byl 1520 ;* Mt. Edgecombe, *Halse*, 30135.

Uredo Disae van der Byl

van der Byl (1927) 226 ; Nel (1942) 49.

on **Monadenia micrantha** Lindl., Belvidere, Knysna, *Duthie*, Type (v. d. Byl 2316, 2336) 33975.

Uredo Dombeyae Doidge

Doidge (1948 b) 907.

on **Dombeya natalensis** Sond., Stella Bush, *Wager*, 33193, Type.

Uredo Ectadiopsis Cooke

Cooke (1882 a) 128 ; Sacc. Syll. Fung. VII : 846 ; P. & H. Sydow (1924) 428 ; Doidge (1927 a) 192.

on **Cryptolepis oblongifolia** Schltr., Inanda, *Medley Wood 600*, Type, 10584, 11220, Kew.

Uredo Ecteinanthi Kalchbr.

Kalchbrenner (1882 b) 25 ; Sacc. Syll. Fung. VII : 847 ; P. & H. Sydow (1924) 409.

on **Isoglossa prolixa** Lind., Grahamstown, *MacOwan 1258*, Type.

Probably the same rust as *Uredo Hypoestis* (Cooke) de Toni.

Uredo Ehrhartae-calycina Doidge

Doidge (1948 b) 907.

on **Ehrharta calycina** Sm., Stellenbosch, *Verwoerd*, Type (Stell. 41, v. d. Byl 1127) 34131.

Uredo Gliae Liro

Liro (1902) 175 : P. & H. Sydow (1924) 440.
on **Ruthea gummifera** (L.) Bolle, Constantia, *MacOwan*.

Uredo Grewiae Pat. & Har.

Doidge (1927 a) 193.
on **Grewia flava** DC., Koedoespoort, *Pole Evans*, 1304, *Pearson*, 1585.

Uredo Homeriae Bubak

H. & P. Sydow (1911) 143 : P. & H. Sydow (1924) 512 ; Sacc. Syll. Fung. (1927 a) 196.
on **Homeria** sp., Cape Province, *Bachmann*, Type.

Uredo Hyperici-leucoptychoidis Doidge

Doidge (1939) 506.
on **Hypericum leucoptychoides** Steud., Woodbush, *Doidge*, 28467.

Uredo Hypoestis (Cooke) de Toni

Sacc. Syll. Fung. VII : 850 : P. & H. Sydow (1924) 410 ; Doidge (1927 a) 191 ; Hopkins (1938 a) 107 ; Nel (1942) 49.
Trichobasis Hypoestis Cooke (1882 a) 128.
on **Hypoestes antennifera** S. Moore, Inanda, *Medley Wood 589*, Type, 824, 10621 ; Stella Bush, *Doidge*, 1625 ; nr. Umtali, *Mogg*, 29854 ; Zimbabwe, *v. d. Byl 2467*.
Hypoestes aristata R. Br., Inanda, *Medley Wood 589*.
Hypoestes verticillaris R. Br., Port Alfred, *Tyson*, 9108.

Uredo Indigoferae Doidge

Doidge (1927 a) 195, 213 : Hopkins (1938 a) 107, (1939 a) 23 ; Nel (1942) 49.
on **Indigofera neglecta** N.E.Br., Wagendrift, *Doidge*, 11330, Type ; Meintjies Kop, *Mogg*, 25347 ; Salisbury, *Eyles 6686* (Rh. 2134) ; Durban, *McClean*, 30451.
Indigofera pretoriana Harms., Garstfontein, *Erasmus*, 1455.
Indigofera spp., Barberton, *Pole Evans*, 1853, 1854 ; Salisbury, *Eyles*, (v. d. Byl 1739) ; Wolwekloof, *Bosman*, 32888.

Uredo Kaempferiae Syd.

H. & P. Sydow (1914 b) 263 ; P. & H. Sydow (1924) 511 ; Sacc. Syll. Fung . XXIII : 949 ; Doidge (1927 a) 196 ; Hopkins (1939 a) 23, (1939 c) 592 ; Cardoso (1945) 164.
on **Kaempferia Ethelae** Wood, Quelimane, *Pole Evans*, 7387.
Kaempferia sp., Umtali, *Hopkins*.

Uredo kampuluvensis P. Henn.

P. Hennings (1903) 159 ; Sacc. Syll. Fung. XVII : 450 ; P. & H. Sydow (1924) 469 ; Doidge (1927 a) 195 ; Hopkins (1943) 180.
on **Baphia obovata** Schinz, Kampuluve River, *Baum 802*, Type, 6880, Kew ; Bulawayo, *Hopkins*.

Uredo Lonchocarpi Doidge

Doidge (1927 a) 195, 213 ; Cardoso (1945) 160.
on **Lonchocarpus Capassa** Rolfe, Umbelusi, *Howard*, 532, Type, 533 : Olifants River Tank, *Pole Evans*, 11021 : Komatipoort, *Pole Evans*, 13091 ; Barberton, *White*, 916.

Uredo longaensis P. Henn.

P. Hennings (1903) 159 ; Sacc. Syll. Fung. XVII ; 450 ; P. & H. Sydow (1924) 444 ; Doidge (1927 a) 193.

on **Combretum Baumii** Engl. & Gilg., banks of the Longa River, *Baum 673*, Type, Kew.

Uredo Lotononi Doidge

Doidge (1927 a) 196, 213 ; Nel (1942) 49.

sub *Uromyces Lupini* Berk. & Curt. in Herb. Kew.

on **Lotononis corymbosa** Benth., Inanda, *Medley Wood 595*, 11167, Kew.

Lotononis cytisoides Benth., nr. Mont aux Sources, *Mogg*, 12955, Type.

Lotononis hirsuta Schinz, nr. Irene, *Pole Evans*, 10986.

Lotononis oxyptera Benth., Stellenbosch, *Duthie* (v. d. Byl 2424), *v. d. Byl 2637*, *Verwoerd* (Stell. 309).

Lotononis sp., Gemelo West, *Burtt Davy*, 11702.

?on **Crotalaria excisa** E. & Z., Stellenbosch, *Duthie* (v. d. Byl 2046).

Uredo Moraeae Kalchbr.

Kalchbrenner (1882 b) 24 ; Sacc. Syll. Fung. VII : 854 ; P. & H. Sydow (1924) 512 ; Doidge (1927 a) 197.

on **Homeria Breyniana** (L.) Lewis var. **ochroleuca** Salisb., Somerset East, *MacOwan*, *1065*, Type, *1240*.

Uredo Oncidii P. Henn.

on **Oncidium Lanceanum** Lindl., Durban (imported plants confiscated), 33331.

Uredo Polygalae Kalchbr.

Kalchbrenner (1882 b) 25 ; Sacc. Syll Fung. VII : 857 ; P. & H. Sydow (1924) 461 ; Doidge (1927 a) 194.

on **Polygala Ohlendorfiana** E. & Z., nr. Somerset East, *MacOwan 1228*.

Polygala sp., Bethlehem, *v. d. Merwe*, 30939 ; ? Natal, *Medley Wood*, 30943.

Uredo Psoraleae-polystictae Doidge

Doidge (1941 c) 233.

on **Psoralea polysticta** Benth., Durban, *McClean*, 30994, Type.

Uredo rhoina Syd.

Doidge (1948 b) 908.

on **Lannea discolor** Sond., Nelspruit, *Doidge*, 32395.

Uredo Rottboelliae Diet.

P. & H. Sydow (1924) 546 ; Doidge (1927 a) 198.

on **Hemarthria altissima** (Poir.) Stapf & Hubb., Cedara, *Staples*, 17083 ; Schagen, *Liebenberg*, 29935.

Rottboellia exaltata Linn. f., Pretoria, *Burtt Davy*, 920.

Uredo Satyrii Mass.

Massee (1908) 217 ; Sacc. Syll. Fung. XXIII : 944.

on **Satyrium coriifolium** Sw., Cape, *MacOwan*, Kew.

Uredo Schizachyrii Doidge

Doidge (1939) 508.

on **Schizachyrium semiberbe** Nees, Donkerpoort, *Doidge & Bottomley*, 29766, Type.

Uredo Scirpi-corymbosi Doidge

Doidge (1939) 507.

on **Scirpus corymbosus** Roth., Donkerpoort, *Doidge & Bottomley*, 29986, 30131 ; Skinner's Court, *Doidge*, 23457 : Onderstepoort, *Pole Evans*, 1314 ; Debbe's Ravine, *Bottomley*, 25332 ; Bon Accord, *Mogg*, 32433.

Uredo Scirpi-maritimi Doidge

Doidge (1941 c) 233.

on **Scirpus maritimus** Linn., Uitenhage, *Zeyher 4422*, Type, 30904.

Uredo Stenotaphri Syd.

H. & P. Sydow (1909) 544 : P. & H. Sydow (1924) 548 ; Doidge (1927 a) 198. Cardoso (1945) 164.

on **Stenotaphrum secundatum** (Walt.) O. Ktze., Lourenco Marques, *Howard*, 678, Type.

Uredo Stylosanthis P. Henn.

Doidge (1927 a) 196.

on **Stylosanthes mucronata** Willd., Barberton, *Pole Evans*, 1162.

Uredo Zehneriae Thuem.

Von Thuemen (1877) 410 : Sacc. Syll. Fung. VII : 863 ; P. & H. Sydow (1924) 402 ; Doidge (1927 a) 191.

Trichobasis Zehneriae Thuem., Kalchbrenner & Cooke (1880) 31.

on **Melothria punctata** (Thunb.) Cogn., Groot Visch Rivier, nr. Cookhouse, *MacOwan 1271*, Type (S.A.M. 28726) Kew.

Uredo sp.

on **Pycreus lanceus** (Thbg.) Turrill, Pyramids, *Mogg*, 32432 ; Donkerpoort, *Doidge & Bottomley*, 29979.

Pycreus polystachyus Beauv., Knysna, *Bottomley*, 32425.

EUBASIDII

HYMENOMYCETEAE

Tremellineae.

AURICULARIACEAE.

Auricularia auricula-judae (Fr.) Secretan

P. Hennings (1892) 338 ; van der Byl (1923) 10 ; Nel (1942) 63.
Exidia auricula-judae Fr., Montagne (1847) 175.
Hirneola auricula-judae Berk., Cooke (1879 b) 70.
on **Olea laurifolia** Lam., Knysna, *J. Phillips* (v. d. Byl 2227) Kew.
on old wood, Natal, *Medley Wood 412*, 10397, 31826, Kew ; Pondoland, *Bachmann* ; Kentani, *Pegler 766* ; Kingwilliamstown, *Schaefer*, 30895 ; Durban, *McRae* (v. d. Byl 425) 31738, 31739, *v. d. Byl 186, 333, 616, 624, 737, 913* ; Winkle Spruit, *Reinecke*, 23091 ; Maritzburg, *Rump 110, 326*, 27780, 28681 ; Elim, *Watson*, 25880 ; Boschfontein, nr. Wolhuters Kop, *Bottomley & Hean*, 30658 ; Keurboom River, *Duthie 45*, 31316 ; Vumba Mts., *Masseurs*, 33954 ; Durban, *Verwoerd* (Stell. 152).

Auricularia delicata (Fr.) Henn.

Lloyd (1922) 1122 ; van der Byl (1923) 9 ; Nel (1942) 63.
Hirneola delicata (Fr.) Bres., Torrend (1905) 220.
on rotten wood, Town Bush Valley, *Rump 192*, 27782 ; Eshowe, *v. d. Byl 31, 502*. Woodbush, *Doidge*, 1764 ; Moçambique (Torrend).

Auricularia Emini P. Henn.

Auricularia squamosa Pat. & Har., Lloyd (1917 a) L. 65 : 7 ; van der Byl (1923) 10 ; (1923) 10 ; Nel (1942) 64.
Hirneola squamosa (Pat. & Har.) Lloyd, Stevenson & Cash (1936) 29.
on **Vitex mooiensis** Pearson, Transkei, 28814.
on dead wood, Ginginhlovu, *Haygarth*, 15634 ; Zululand, *v. d. Byl 250, 442*, 31752 ; without locality, *v. d. Byl* (Lloyd Myc. Coll. 33594, 33599).

Auricularia flava Lloyd

Lloyd (1922) 1153, 1162 ; van der Byl (1923) 9 ; Stevenson & Cash (1936) 28 ; Nel (1942) 63.
on dead wood, Lobatsi, *Breach*, Type (v. d. Byl 426 ; Lloyd Myc. Coll. 33287).

Auricularia fusco-succinea (Mont.) P. Henn.

P. Hennings (1892) 338.
Hirneola nigra Fr. var. *fusco-succinea* Fries (1848) 27 ; Kalchbrenner (1882 a) 105.
Hirneola fusco-succinea Mont., Sacc. Syll. Fung. VI : 768.
on tree trunks in bush, Boschberg, *MacOwan 1031* (S.A.M. 34217) 20949, Kew ; on banks of Tugela River (Herb. Berol.).

Auricularia mesenterica (Dicks. ex Fr.) Fr.

on dead wood, Town Bush, *Rump 251*, 28495, Kew ; Victoria Falls, *Bottomley*, 14137.

Var. **lobata** (Sommerf.) Quél.

Auricularia lobata Sommerf., van der Byl (1923) 10 ; Nel (1942) 63 ; Killermann (1928) 108.
on dead stump, Victoria Falls, *v. d. Byl 675, F. Eyles 1312*, 23373 ; Moçambique, *Killermann*.

Auricularia nigra (Sw.) P. Henn.

P. Hennings (1892) 338.

Hirneola nigra (Sw. ex Fr.) Fries (1848) 27 : Kalchbrenner (1882 a) 106.

sub *Hirneola fusco-succinea* (Mont.) P. Henn., Cooke (1879 b) 70 and in Herb. Kew.

on old wood, Pondoland, *Bachmann* : Inanda, *Medley Wood 108*, 10398, 22094, Kew.

Auricularia ornata Pers.

van der Byl (1923) 11 ; Nel (1942) 63.

on dead wood, Durban, *v. d. Byl 588.*

Auricularia polytricha (Mont.) Sacc.

van der Byl (1923) 10 ; Nel (1942) 63.

Hirneola polytricha Mont., Torrend (1905) 220.

on **Melia Azedarach** Linn., dead stump, Kentani, *Pegler 1424*, 8755 (sub *Hirneola* in Herb. Kew).

on dead stumps, Durban, *v. d. Byl 185, 332.*

Helicobasidium compactum Boedyn

Bottomley (1936) 374.

on **Pinus longifolia** Roxb., Hanglip, *D.F.O.*, 26329, 26855, 27345, 27347, 27701, Kew ; Limbadola, *D.F.O.*, 27346.

Pinus luchuensis Mayr., Bergplaats, George (Herb. I. M.I.)

Helicobasidium mompa Tan.

Hopkins (1938 a) 110.

on tree stump, Hartley, *Eyles 3964.*

Helicobasidium purpureum Pat.

see *Rhizoctonia crocorum* (Pers.) DC., perfect stage not known in South Africa.

Hirneola auricularis (Fr.) Fr.

Lloyd (1917 a) L. 66 : 16.

on wood, Durban, *McRae*, 31739.

Hirneola auriformis (Schw.) Fr.

Fries (1848) 26 ; Torrend (1905) 220 ; Cheesman (1909) 412.

on tree trunks, Victoria Falls and north bank of the Zambesi River. *Cheesman* ; Moçambique, *Torrend.*

Hirneola cochleata Fr.

Fries (1848) 24 ; Sacc. Syll. Fung. VI : 765.

on trunks of trees, Natal, *Wahlberg.*

Hirneola hemispherica Fr.

Fries (1848) 25 ; Sacc. Syll. Fung. VI : 769.

on trunks of trees, Natal, *Wahlberg.*

Hirneola rufa (Berk.) Fr.

Berkeley (1876 a) 175.
on wood, foot of Table Mt., *Eaton*.
Doubtful record : according to Bresadola (1916) 234, this is probably *Auricularia polytricha* (Mont.) Sacc.

Hirneola vitellina (Lév.) Fr.

Fries (1848) 27 ; Kalchbrenner (1882 a) 106 ; Sacc. Syll. Fung. VI : 770 : Bresadola (1916) 234.
on wood, Inanda, *Medley Wood 398*, 10396.
Doubtful record : fide Bresadola l.c., *Exidia vitellina* Lév. is a species of *Aleurodiscus*

Septobasidium Bagliettoanum (Fr.) Bres.

van der Byl (1929 c) 23 ; Nel (1942) 64.
on stem of undet. plant, Hartebeestpoort Dam, *v. d. Byl 2380*.

Septobasidium bogoriense Pat.

Couch (1938) 213.
Septobasidium mompa (Tan.) Rac., van der Byl (1929 c) 23.
on **Erythrina caffra** Thunb., Durban, *v. d. Byl*.
on bark of tree undet., Hartley, *Eyles 3964*.

Septobasidium Carestianum Bres. var. **natalense** Couch

Couch (1938) 157.
on **Citrus Limonia** Osbeck, Durban, *Wager*, 33555 : associated with scale insects.
Citrus maxima Merr., Durban, *Wager*, 33555.
Citrus sinensis Osbeck, twigs and leaves, Maritzburg, *v. d. Vyver*, Type (Univ. North Carolina Herb. 10425) 26321 ; ? Port St. Johns, *Clarke*, 28322, Kew.

Septobasidium grandispinosum Couch

Couch (1938) 154.
on **Gymnosporia buxifolia** Szysz., near Pretoria, Kresfelder, Type (Univ. North Carolina Herb.) 20350 ; Bleakmore Siding, *Swan*, 12463 ; ass. with scale insects.

Septobasidium griseopurpureum Couch

Couch (1938) 105.
on plant undet., without locality, *v. d. Byl* (Lloyd Myc. Coll. 39226) Type : ass. with scale insects, near *Lepidosaphes*.

Septobasidium natalense Couch

Couch (1938) 118.
on **Prunus persica** Sieb. & Zucc., New Hanover, *Dale* (Univ. North Carolina Herb.) 21011 associated with scale insects.
Prunus salicina Lindl., Waterval Boven, 2107 ; Maritzburg, *Fuller*, 2306, *Spencer*, Type, (Univ. North Carolina Herb.) 17276 ; Ladysmith, *Christopher*, 22086.

Septobasidium pedicellatum (Berk. & Curt.) Pat.

Lloyd (1917 a) L. 66 : 11, (1917 c) 720 ; Hopkins (1938 a) 110, (1939 a) 40.
on **Pyrus malus** Linn., Salisbury, *Hopkins*.
Gymnosporia albata Sim, Oliviers Hoek, *Henkel*, 31746.

Septobasidium philippense Couch

Couch (1938) 247.
on ? **Tarchonanthus** sp., Trapp's Valley, 2382.

Septobasidium protractum Syd.

H. & P. Sydow (1912 a) 33 ; Sacc. Syll. Fung. XXIII : 565 : Couch (1938) 91 ; van der Byl (1929 c) 22 ; Killermann (1928) 1081; Nel (1942) 64.
on **Acacia Burkei** Benth., Buffelsdrift, *Pienaar*, 1642.
Acacia detinens Burch., Stinkwater, *Rose Innes*, 30280 : Saltpan, *Mogg*, 22552, 34588 ; Bosplaats, Pienaars River, *Mogg* 27551 ; Warmbaths, *Irvine*, 29724.
Acacia hirtella E. Mey., Verulam, *Pole Evans*, 6808.
Acacia pallens Rolfe, Plat Rivier, *Pienaar* (Syd. Fung. Exot. 1) 1927, Type, 2002, 5194, Kew : associated with scale insects, *Parlatoria* sp.
Acacia spp., Pretoria district, *Schaefer*, 33942 ; Buffels Drift, *Pienaar*, 1642.

Septobasidium pseudopedicellatum Burt

van der Byl (1929 c) 22 ; Cardoso (1937) 153, (1938) 74, (1945) 151.
as *Septobasidium* sp., Eyles (1926) 636.
? as *Thelephora pedicellata* Schw., Bottomley (1916) 440.
on **Citrus sinensis** Osbeck, Mazoe, *Eyles 4130* (v. d. Byl 2322) : Durban, *v. d. Byl* 388, 702 ; Sul do Save, *Cardoso* ; Namaacha, *Cardoso*.
Citrus maxima Merr., Inhambane, *Gillet*, 30276.
? on bark, Inanda, *Medley Wood 532*.

Septobasidium sp., near **S. Curtisii** (Berk. & Desm.) Boedyn & Steinm.

on **Aleurites Fordii** Hemsl., Stegi, *Keith*, 28275, Kew.
Ceratonia siliqua Linn., Stegi, *Keith*, 28522.
Crassula arborescens Willd., Amanzi, *Doidge*, 22338.
Prunus salicina Lindl., Maritzburg, *Fuller*, 1890.
White River, *Talbot*, 2381.

Septobasidium sp.

as *Thelephora pedicellata* Schw., Cooke & Kalchbrenner (1881) 27 and in Herb. Kew ; Sacc. Syll. Fung. VI : 544.
on bark, Inanda, *Medley Wood 532*, 9483, 10643, Kew.

TREMELLACEAE.

Exidia caespitosa Lloyd

Lloyd (1915 b) 537, (1915 a) L. 60 : 10 ; van der Byl (1923) 6, (1925 b) 193 ; Sacc. Syll. Fung. XXIII : 577 ; J. Phillips (1931) 160 : Stevenson & Cash (1936) 31.
on indigenous trees, common, Knysna, *Duthie 49* (Lloyd Myc. Coll. 33507) Type ; on old stump, Stellenbosch, *v. d. Byl 481.*

Exidia Duthiei Lloyd

Lloyd (1919 c) 902 ; van der Byl (1923) 6 : Stevenson & Cash (1936) 31.
on **Caesalpinia sepiaria** Roxp., dead wood, Town Bush Valley. *Doidge*, 34058.
on old wood, ? Knysna, *Duthie* (Lloyd, Myc. Coll. 9710).

Exidia glandulosa (Bull. ex Fr.) Fr.

Kalchbrenner (1882 a) 106 ; Sacc. Syll. Fung. VI : 773 ; Lloyd (1916 d) L. 63 : 4.
on rotten branches, Boschberg, *MacOwan* ; ? Knysna, *Duthie.*

Exidia purpurea-cinerea MacOwan & Kalchbr.

Kalchbrenner (1882 a) 106 ; Sacc. Syll. Fung. VI : 776 ; Lloyd (1915 b) 536; van der Byl (1922 d) 285, (1923) 6, (1926 c) 288 ; Verwoerd (1931 a) 300 ; Nel (1942) 95.
on **Acacia saligna** Wendl., dead branches, Somerset Strand, *Verwoerd* (Stell. 51).
Eucalyptus sp., Maritzburg, *v. d. Byl 174, 379*, 31716.
Gymnosporia peduncularis L. Bolus, Knysna, *Doidge*, 17800.
Quercus sp., common on old branches, Stellenbosch, *Duthie 48* (v. d. Byl 498).
Pinus sp., on tree stump, Groot Drakenstein, *v. d. Byl 772.*
on dead wood, Boschberg, *MacOwan* (Type in Herb. Berol.) ; Bloemfontein, *Verwoerd* ; Woodbush, *v. d. Byl 1483* ; Stellenbosch, *v. d. Byl 480* ; Town Bush Valley, *Rump*, 27648.

Heterochaete andina Pat. & Lagerh.

van der Byl (1923) 5 ; Nel (1942) 95.
on **Euphorbia pulcherrima** Willd., dead branch, Durban, *v. d. Byl 698.*
Canthium sp., dead branch, Durban, *v. d. Byl 785.*
on dead branch, Durban, *v. d. Byl 629.*

Sebacina africana Burt

Burt (1926) 338 ; van der Byl (1929 c) 20 ; McGuire (1941) 43 ; Nel (1942) 95.
on decayed trunk, Knysna, *v. d. Byl 1342*, Type (Mo. Bot. Gdn. Herb. 63405).
Said by McGuire, l.c., to be a *Corticium.*

Tremella alba Kalchbr.

Kalchbrenner (1882 a) 106 ; Sacc. Syll. Fung. VI : 781.
on tree trunk, Natal, *Medley Wood 218*, Type.

Tremella corrugis Fr.

Fries (1848) 28 ; Sacc. Syll. Fung. VI : 789.
on ground, Natal, *Wahlberg.*

Tremella crassa Lloyd

Lloyd (1922) 1148 ; van der Byl (1923) 7, (1925 b) 193 ; Nel (1942) 95 ; J. Phillips (1931) 160 ; Stevenson & Cash (1936) 35.
on dead logs, *v. d. Byl 118, 725* (Lloyd Myc. Coll. 4020) Type.

Tremella epigaea Berk. & Br.

Berkeley (1876 a) 782.
on ground, Government House, Cape Town, *Eaton.*

Tremella frondosa Fr.

J. Phillips (1931) 160.
? on **Cassine croceum** O. Ktze., dead tree, Knysna, *J. Phillips*, 17806.
Olinia cymosa Thunb., Petrus Brandt, Knysna, *J. Phillips*, 18034.

Tremella fuciformis Berk.

van der Byl (1923) 7, (1925 b) 193 ; J. Phillips (1931) 160 ; Nel (1942) 95.
on dead wood, Knysna, *Duthie 55* (v. d. Byl 734) ; Durban, *v. d. Byl 605, 630.*

Tremella hemifoliacea Lloyd

Lloyd (1924) 1338 ; Stevenson & Cash (1936) 36.
on **Gymnosporia peduncularis** L. Bolus, Knysna, *Doidge*, Type (Lloyd Myc. Coll. 29497) 17798.

Tremella lutescens Pers. ex Fr.

Cooke (1879 b) 70 ; Kalchbrenner (1882 a) 106 ; Sacc. Syll. Fung. VI. : 781 ; van der Byl (1923) 8, (1925 b) 193 ; J. Phillips (1931) 160 ; Nel (1942) 95.
on **Olinia cymosa** Thunb., Knysna, *v. d. Byl 2263*, Kew.
Virgilia oroboides (Berg.) Salter, Forest Hall, Knysna, *Duthie 262*, 31439.
on branches, Natal, *Medley Wood 398* ; Somerset East, *MacOwan* ; Brenton, Knysna, *Duthie 107* (v. d. Byl 1141) ; Knysna, *v. d. Byl 2237*, Kew ; ? Town Bush, *Rump 316*, 28676 ; on gate post, Pretoria, *Fouche*, 15650.

Tremella mesenterica Retz. ex Fr.

Medley Wood (1898) 19 ; van der Byl (1923) 8, (1925 b) 193 ; Nel (1942) 95. J. Phillips (1931) 160 ; Nel (1942) 95 ; Simpson & Talbot (1946) 133.
on tree trunk, Natal, *Medley Wood 197* ; Knysna, *Duthie 139, 142*, 31365, 31367 and *v. d. Byl 1349* ; Stellenbosch, *Brink* (v. d. Byl 1055) ; Qudeni Forest, *Simpson & Talbot* 34948.

Tremella micropera Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 18 ; Kalchbrenner (1882 a) 106 ; Sacc. Syll. Fung. VI : 789.
on branches, Somerset East, *MacOwan 1351.*

Tremella microspora Lloyd

Lloyd (1920) 991 ; van der Byl (1922 d) 285 (1923) 7 ; Stevenson & Cash (1936) 36.
on old wood, Jonkershoek, *Duthie 242*, Type (Lloyd Myc. Coll. 27046).

Tremella moriformis Berk.

Nel (1942) 95.
on old wood, Grootrivier, Knysna, *v. d. Byl 2250*, Kew.

DACRYOMYCETACEAE.

Calocera cornea Fr.

Kalchbrenner (1882 a) 106 ; Cheesman (1909) 412 ; van der Byl (1923) 3 ; Nel (1942) 65.
on wood, Somerset East, *MacOwan* ; Rain Forest, Victoria Falls, *Cheesman* ; Forest Hall, Knysna, *Duthie 267*, 31443 ; Maritzburg, *v. d. Byl 591, 623.*

Dacryomitra dubia Lloyd

Lloyd (1917 c) 742, (1920) 952.
Without locality, *v. d. Byl.*

Dacryomyces australis Lloyd

Lloyd (1920) 924 (as *D. australia*) ; van der Byl (1923) 3 ; Stevenson & Cash (1936) 39 ; Nel (1942) 65.

on dead stump, Maritzburg, *v. d. Byl 595, 627* ; without locality, *v. d. Byl 816*, Type (Lloyd Myc. Coll. 34208).

Dacryomyces digressus Lloyd

Lloyd (1916 c) 620, (1920) 935 ; van der Byl (1923) 3, (1925 b) 193 ; Sacc. Syll. Fung. XXIII : 582.

on old wood, Knysna, *Duthie 108*, Type (Lloyd Myc. Coll. 34211) ; without locality, *v. d. Byl* (Lloyd Myc. Coll. 33310, 34209, 34210).

Dacryomyces tortus Fr.

Dacryomyces deliquescens (Bull.) Duby, v. d. Byl (1923) 3 ; J. Phillips (1931) 160 ; Nel (1942) 65.

on **Pinus** sp., dead stumps, Stellenbosch, *Duthie 126*, 31359.

on rotten wood or bark, Papegaaisberg, *Duthie 152*, 31373 ; Knysna, *Duthie 128* ; Klapmuts, *v. d. Byl 211* ; Stellenbosch, *v. d. Byl 1165, 1313* ; without locality, *E. L. Stephens* (Duthie 125) ; Forest Hall, Knysna, *Duthie 263*, 31440 ; Qudeni Forest, *Simpson & Talbot*, 34949.

Femsjonia natalensis Cooke

Cooke (1882 a) 123 ; Sacc. Syll. Fung. VI : 780.

on decaying trunk in bush, Inanda, *Medley Wood 476, 3303*, 11047, 11209, sub *Tapezia* (*Peziza*) *natalensis* Cooke in Herb. Kew.

Guepinia agariciformis Lloyd

Lloyd (1923) 1186 ; van der Byl (1923) 4 ; Stevenson & Cash (1936) 41.

on old wood, Maritzburg, *v. d. Byl 770*, Type (Lloyd Myc. Coll. 9752).

Guepinia flabellata Cooke

Cheesman (1909) 412.

on rotten wood, Victoria Falls, west side, near Leaping Cascade, *Cheesman*.

Guepinia petaloides Kalchbr.

Kalchbrenner (1882 a) 105 ; Sacc. Syll. Fung. VI : 808.

on wood, Boschberg, *MacOwan 1206*, Type (S.A.M. 34230).

Guepinia sparassoides Kalchbr.

Kalchbrenner (1882 a) 105 ; Sacc. Syll. Fung. VI : 810.

on trunks, Bazuja, *Baur 698*, Type.

Guepinia spathularia (Schw.) Fr.

Medley Wood (1898) 17 ; Lloyd (1916 d) L. 63 : 11 ; van der Byl (1925 b) 192, (1923) 4 ; J. Phillips (1931) 160 ; Nel (1942) 65.

Guepinia fissa Berk., Torrend (1905) 220.

Guepinia palmiceps Berk., Fries (1848) 19 ; Sacc. Syll. Fung. VI : 809.

Guepinia spathularia f. *lata* Lloyd (1916 d) L. 63 : 11 ; Stevenson & Cash (1936) 41. as *Guepinia spathulata* Nel (1942) 109.

on **Acacia mollissima** Willd., Sevenoaks (T.R.L. 331).

Eucalyptus sp., dead wood, Tzaneen, *v. d. Byl 1467.*

on face of felled logs, Natal, *Wahlberg* : on old stumps of trees and on dead wood Natal, *Medley Wood 514*, 10411 ; Knysna, *Duthie 124* (v. d. Byl 732) ; Durban, *Hobbs* (v. d. Byl 32) 31977 ; Pretoria, *Doidge*, 30560 ; Maritzburg, *Doidge*, 31032 ; Knysna, *Duthie* (Lloyd Myc. Coll. 35412) 31364, *Verwoerd* (Stell. 338) ; Schroeders, *v. d. Byl 452*, 31756 ; Marwaqa Forest, *Doidge*, 34930 ; Moçambique, (Torrend).

Hormomyces aurantiacus Bon.

Lloyd (1920) 960, 961 ; van der Byl (1922 d) 285 ; Nel (1942) 107.

on **Quercus** sp., dead logs, Stellenbosch, *Duthie.*

on wood, Paarlberg, *F. L. Stephens* (Stell. 896 ; v. d. Byl 2544).

Hormomyces callorioides (Kalchbr. & Cooke) Sacc.

Sacc. Syll. Fung. VI : 813 ; Lloyd (1917 c) 712 ; Killermann (1928) 123.

Hypsilophora callorioides Kalchbrenner & Cooke (1880) 18.

on dead wood, Somerset East, *MacOwan 73.*

Lloyd, l.c., suggests that this species is identical with *Hormomyces aurantiacus* Bon.

HYMENOMYCETALES

(Agaricales.)

EXOBASIDIACEAE

Exobasidium Giseckiae Allesch.

Hennings (1895 c) 54 ; H. & P. Sydow (1909) 545 ; Maublanc (1906) 7 ; van der Byl (1929 c) 9 ; Hopkins (1938 a) 10.

on **Gisekia pharnaceoides** Linn., on leaves and flowers, Pienaars Poort, *Pole Evans*, 550, *Fuller*, 10054 ; Christiana, *Burtt Davy*, 2248 ; Magaliesberg, *Leendertz*, 7380, *E. P. Phillips*, 26685 ; Kimberley, *Moran*, 9685 ; Bloemfontein, *Potts*, 10033 ; Tuinplaats, *Wager*, 21100 ; Pretoria North, *Poynter*, 25919 ; Nelspruit, *Liebenberg*, 26073, *Wager*, 26629 ; Wonderboom Poort, *C. A. Smith*, 26101 ; Taungs, *Hean*, 32670 ; Vaalwater, *du Plessis*, 32804 ; Salisbury, *Eyles 3332 a*, Kew ; Moçambique, *le Testu.*

Exobasidium hesperidium Maire

Hopkins (1938 a) 110, (1939 a) 40.

on **Rhus** sp., leaf, Hatfield (Rh. 2073).

Exobasidium Vaccinii (Fuck.) Woron.

on **Rhododendron** sp., Pretoria, *Anderssen*, 30645 ; Cape Town, *Davies*, 17819 ; Gillitts *Wager*, 34151.

Exobasidium Vitis Prill. & Delacr.

Doidge & Bottomley (1931) 28.

on **Vitis vinifera** Linn., Pretoria, *Holzer*, 12514.

Microstroma Albizziae Syd.

H. & P. Sydow (1914 b) 263 ; Doidge & Bottomley (1931) 24 ; Sacc. Syll. Fung. XXV : 634.

on **Albizzia gummifera** (Gmél.) C. A. Sm., Scottburgh, *Pole Evans*, 6828, Type ; Winkle Spruit, *Pole Evans*, 2385.

Albizzia versicolor Welw. ex Oliv. var. **mossambicensis** Schinz, Rikatli, *Junod*, 11721.

Microstroma album (Desm.) Sacc.

Sacc. Syll. Fung. IV : 9 ; H. & P. Sydow (1909) 547 ; Killermann (1926) 131 ; Doidge & Bottomley (1931) 41.

Microstroma quercinum (Opiz) Niessl., Kalchbrenner & Cooke (1880) 23 ; Medley Wood (1898) 12.

Microstroma quercinum f. *Roboris* Thuem., von Thuemen (1875) 380.

on **Quercus Robur** Linn., leaves, Somerset East, *MacOwan 1110* (Rabenh. Wint. Fung. Eur. 3387 ; S.A.M. 34236) 21962.

Quercus sessiliflora Salisb., Somerset East, *MacOwan* (Thuem. Myc. Univ. 1471) 21963.

Quercus spp., Maritzburg, *Pole Evans*, 1383 ; Natal, *Medley Wood 59*, 10343, 22095 ; Wellington, *Doidge*, 2064 ; Constantia, *Pare*, 23200 ; Paardeplaats, *Pienaar*, 1490 ; Maclear, *Pienaar*, 2174 ; Rosebank, *Doidge*, 600 ; Pretoria, *Bredell*, 11514 ; Constantia, *Pole Evans*, 35 ; Oaklands, Johannesburg, *Weintroub*, 33469.

HYPOCHNACEAE.

Hypochnus Eylesii v. d. Byl

van der Byl (1925 a) 168, (1929 c) 18 ; Nel (1942) 67.

on ground, Stellenbosch, *Eyles* (Stell. 30 ; v. d. Byl 1135), Type.

Hypochnus puniceus (Alb. & Schw. ex Fr.) Sacc.

van der Byl (1929 c) 19.

Thelephora punicea Alb. & Schw. ex Fr., Kalchbrenner (1881) 58 ; Medley Wood (1898) 19.

on bark of a tree, Durban, *Medley Wood 190*.

THELEPHORACEAE.

Aleurodiscus acerinus (Pers. ex Fr.) v. Höhn. & Litsch.

Stereum acerinum Pers. ex Fr., Sacc. Syll. Fung. VI : 587.

South Africa, without locality.

Var. **longisporus** v. Höhn. & Litsch.

van der Byl (1929 c) 25 ; Nel (1942) 89.

as *Corticium calceum* var. *lacteum* Fr., von Thuemen (1878 a) 354.

on bark, Somerset East, *MacOwan 1074* (Thuem. Myc. Univ. 807) 20840, 21947 ; Knysna, *du Preez* (v. d. Byl 2244).

Aleurodiscus cerussatus (Bres.) v. Höhn. & Litsch.

van der Byl (1929 c) 25 ; Nel (1942) 89.

on decaying wood in forest, Knysna, *v. d. Byl 2261*.

Aleurodiscus disciformis (DC. ex Fr.) Pat.

Burt (1926) 305 ; van der Byl (1929 c) 25 ; Nel (1942) 89.

on **Podocarpus** sp., on bark of living tree, Stellenbosch, v. d. Byl (Mo. Bot. Gard. Herb. 59358), *Verwoerd* (Stell. 13).

Asterostroma cervicolor (Berk. & Curt.) Massee

on **Fomes** sp., hymenium, Umgeni Bush, Durban, *Rump 348 a*, 30155.

Asterostromella Rumpiana Talbot

Wakefield & Talbot (1948) 939.

on wood, Nkandhla Forest, *Rump 399*, 30200, Kew, Type.

Cladoderris elegans (Jungh.) Fr.

Fries (1848) 22.
Cymatoderma elegans Jungh., Montagne (1847) 173.
in bush, " Koratra ", *Drège 9446* ; " Omsamwubo ", *Drège 9447*.

Cladoderris funalis P. Henn

Lloyd (1913 a) 10 ; van der Byl (1929 c) 52 ; Hopkins (1938 a) 110.
as *Cladoderris furvalis*, Nel (1942) 89.
on ground, Salisbury, *Eyles 5026* (v. d. Byl 2465).

Cladoderris infundibuliformis (Klotzsch) Fr.

Fries (1848) 21 ; Kalchbrenner (1881) 58 : Sacc. Syll. Fung. VI : 548 : Lloyd (1913 a) 8 ; van der Byl (1929 c) 51 ; Nel (1942) 89.
sub *Cladoderris australica* Berk., Cooke (1879 b) 70, (1880 b) 14.
sub *Cladoderris Thwaitesii* Berk. & Br., Kalchbrenner (1881) 58 : Sacc. Syll. Fung. VI : 550.
on wood, Natal, *Medley Wood 239* (S.A.M. 34303) 10170 : Natal, *Medley Wood 94* : Zululand, *v. d. Byl 522* : Buccleuch, *Leighton*, 9149 : without locality, *v. d. Byl 620*, 31860 ; Fountains Valley, *Louwrens*, 27566.

Cladoderris spongiosa Fr.

Fries (1848) 20 ; Sacc. Syll. Fung. VI : 548 : Lloyd (1913 a) 5 ; van der Byl (1929 c) 51 ; J. Phillips (1931) 160 ; Nel (1942) 89.
on dead wood, Natal, *Wahlberg*, Type : Knysna, *J. Phillips* (v. d. Byl 2085) 18045 : Brenton, Knysna, *Duthie 87*, 31344, *Archibald*, 33142 ; Zululand, *v. d. Byl 319* : Ginginhlovu, *Haygarth*, 15554 ; Eshowe, *Noble*, 32476.

Var. **subsessilis** Fr.

Fries (1848) 21 ; Sacc. Syll. Fung. VI : 548.
on dead wood, Cape, *Wahlberg*.

Coniophora atrocinerea Karst.

van der Byl (1929 c) 17 ; Nel (1942) 89.
on **Pinus** sp., at foot of felled tree, Stellenbosch, *v. d. Byl 2451, 2433*.

Coniophora Betulae (Schum.) Karst.

on timber, against wall, Hopevale, *Morgan*, 30633.

Coniophora papillosa Talbot

Wakefield & Talbot (1948) 939.
on timber, Venterspost G. M. (T.R.L. 1852) Kew, Type : produces a brown rot in culture ; on indigenous wood in swamp bush, Compensation Beach, *Rump 393*, 30194, Kew.

Coniophora pulverulenta (Lév.) Mass.

Massee (1889 a) 129 ; Sacc. Syll. Fung. VI : 649.
Corticium (*Coniophora*) *pulverulentum* (Lév.) Cooke (1880 a) 89.
Thelephora pulverulenta Léveillé (1846) 149.
on trunks, Cape and Natal.

Coniophora puteana (Schum. ex Fr.) Karst.

Coniophora cerebella Pers., Laughton (1936) 381 ; Brown (1936) 388 ; van Wyk & Verwoerd (1938) 47 ; Hopkins (1939 c) 592.

on **Pinus** sp., on dead wood, Lourenço Marques, Hillman Bros., 29733 ; Tokai, *Laughton*.
on mine timbers, New Modder Mine, *Brown*, 27558 ; Jubilee Mine, Pilgrims Rest, *Brown*, 28767 ; Randfontein Estates, *Brown*, 28857 ; ? on door frame, Salisbury, *Hopkins* (Rh. 3348) 30799.

Coniophorella olivacea (Fr.) Karst.

on **Pinus** sp., dead wood, Rondebosch, ***E. L. Stephens 367***, 27665.
on flooring board, Johannesburg, *Welntraub* (T.R.L. 1158) 32086.

Corticium abeuns Burt

Burt (1926) 250 ; van der Byl (1926 c) 288, (1929 c) 29 ; Nel (1942) 89.
on dry wood, Woodbush, ***v. d. Byl 1495***.

Corticium (Gloeocystidium) argillaceum v. Höhn. & Litsch.

not *Peniophora argillacea* Bres.
on wood, Xumeni Forest, *Morgan & Doidge*, 28939.

Corticium armeniacum Sacc.

Corticium ceraceum Berk. & Rav. ex Massee (1890 b) 150 ; Burt (1926) 216 ; van der Byl (1929 c) 30 ; Nel (1942) 89.
on **Ekebergia capensis** Sparm., on dead wood, Manubie Forest, *D.F.O.*, 27802, Kew.
on dead wood of trees undet., Natal, *v. d. Byl 2568* (Mo. Bot. Gard. Herb. 58810) Kew ; Groenkop, George, *v. d. Byl 2752* ; Krantzkop, *Rump 445*, 30227 ; Compensation Beach, *Rump 429*, 30219 ; Town Bush, *Rump 608*, 34362

Corticium bombycinum (Sommerf.) Bres.

? on dead wood, Boschfontein, Wolhuters Kop, *Doidge & Bottomley*, 33185.

Corticium caeruleum (Schrad. ex Pers.) Fr.

Fries (1848) 24 ; Kalchbrenner (1881) 59 ; Sacc. Syll. Fung. VI : 614 ; van der Byl (1929 c) 27 ; Nel (1942) 90.
on wood, Somerset East, *MacOwan 1125* (S.A.M. 34255) ; Natal, *Wahlberg* ; Maritzburg, *Ackerman*, 26847, Kew ; Caverns, near Mont aux Sources, *Craik*, 27801, *Bottomley*, 28888 ; Leribe, *Grosskopf* (v. d. Byl 1051) ; Boschfontein, near Wolhuters Kop *Doidge & Bottomley*, 33206 ; Xumeni Forest, *Doidge*, 34320 ; Karkloof, *Rump 590*, 35323.

Corticium calceum Fr., emend. Romell & Burt

Corticium calceum Fr., von Thuemen (1876 b) 363 ; Kalchbrenner (1881) 69 ; Sacc. Syll. Fung. VI : 622 ; Massee (1889 a) 127 ; van der Byl (1929 c) 28.
on decaying wood, Somerset East, *MacOwan 1206*.
Doubtful record.

Corticium confluens Fr.

Burt (1916) 220 ; van der Byl (1929 c) 29 ; Nel (1942) 90.
on bark, Maritzburg, *v. d. Byl 583* (Mo. Bot. Gard. Herb. 69371).

Corticium gloeosporum Talbot

Wakefield & Talbot (1948) 940.
on wood, Town Bush, *Rump 212*, 28288, Type, Kew ; Bulwer, *Rump 26*, 27603.

Corticium lacteum Fr.

Sacc. Syll. Fung. VI : 610 ; van der Byl (1929 c) 30.
Cape (Saccardo) : doubtful record.

Corticium laetum (Karst.) Pers.

Lloyd (1920) 952.
? *Hyphoderma laetum* Karst.
on **Acacia melanoxylon** R. Br., Katberg, *Keet*, 9154.
Pyrus malus Linn., Hilton Road, *Ballenden*, 31998, *Marshall*, 12177 : Town Bush Valley, *Dungan*, 20669 ; Bethlehem, *v. d. Merwe*, 27267.

Corticium luteocystidiatum Talbot

Wakefield & Talbot (1948) 941.
on wood, Town Bush, Maritzburg, *Rump 241*, Type, 28307, Kew ; Town Bush, *Rump 283*, *319 b*, 28690, 28679, Kew ; Impolweni, *Rump 167*, 28557, Kew ; ? Xumeni Forest, *Doidge*, 28947, Kew.

Corticium pelliculare Karst.

van der Byl (1929 c) 29 ; Nel (1942) 90.
on wood, Knysna, *v. d. Byl 2225*.

Corticium portentosum Berk. & Curt.

Burt (1926) 187 ; van der Byl (1929 c) 28 ; Nel (1942) 90.
on **Euphorbia pulcherrima** Willd., on wood, Maritzburg, *Rump 675*, 33993.
on wood of indigenous trees, Umkomaas, *v. d. Byl 1151* (Mo. Bot. Gard. Herb. 62079) ; Isipingo, *Rump 591*, 35324 ; Umhlali, *Rump 409*, 30208, Kew ; Compensation Beach, *Rump 410*, 30209, Kew ; Umgeni Beach, *Rump 411*, 30210 ; Port St. Johns, *Rump 479*, 30823 ; Scottburgh, *Rump 534*, 33902 ; Durban, *v. d. Byl 2136* (Mo. Bot. Gard. Herb. 58800, 58834). *Verwoerd* (Stell. 295) ; Karkloof, *Rump 604*, 34360 ; Munnik-Tzaneen road, *Scott*, 34543.

Corticium salmonicolor Berk. & Br.

Hopkins (1938 a) 110, (1939 a) 37, 39.
on **Pyrus communis** Linn., on branch, Umtali (Rh. 1262).
Pyrus malus Linn., on branch, Umtali (Rh. 1199).

Corticium scutellare Berk. & Curt.

Burt (1926) 192 ; van der Byl (1926 c) 288, (1929 c) 27 ; Nel (1942) 90.
on rotten wood, Woodbush, *v. d. Byl 1482* ; Eshowe, *v. d. Byl 678* (Mo. Bot. Gard. Herb. 58824) ; Winters Kloof, *Rump 53*, 27680, Kew.

Corticium tumulosum Talbot

Wakefield & Talbot (1948) 941.
on wood, The Willows, *Lansdell*, 28897, Kew, Type.

Corticium vagum Berk. & Curt.

Corticium Solani (Prill. & Delacr.) Bourd & Galz, Doidge & Bottomley (1931) 21, 53 ; Hopkins (1938 a) 110, (1939 a) 43.
Corticium vagum var. *Solani* Burt, Eyles (1926) 646.
on **Corchorus** sp., Salisbury (Rh. 1205).
Glycine Max Merr., Lydenburg, *Pons*, 29964.
Solanum tuberosum Linn., Salisbury (Rh. 1829) ; Inyazura (Rh. 1783) : Bulawayo, *Eyles*.
Vigna unguiculata (Linn.) Walp., Natal.

Corticium sp.

Laughton (1936) 382.
on seedlings of indigenous trees, Knysna, *Laughton*.

Craterellus cornucopioides (Linn. ex Fr.) Pers.

van der Byl (1929 c) 10.
on ground, Natal, *Medley Wood 4108*, 10456.

Cyphella alboviolascens (Alb. & Schw. ex Fr.) Karst.

Kalchbrenner (1882 a) 104 : Sacc. Syll. Fung. VI : 669 : van der Byl (1929 c) 12.
on dry branches, Somerset East, *MacOwan* : Stellenbosch, *Loseby* (v. d. Byl 2503, 2524).

Cyphella Cheesmanni Mass.

Cheesman (1909) 411 ; Sacc. Syll. Fung. XXI : 422.
on decorticated branches in Rain Forest, Victoria Falls, *Cheesman*.

Cyphella farinacea Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 18 : Kalchbrenner (1882 a) 104 : Sacc. Syll. Fung. VI : 671 ; Killermann (1928) 150.
on wood, Somerset East, *MacOwan & Tuck* (MacOwan 1221) 21817 : ? Eshowe, *Laughton*, 33350.

Cyphella Friesii Crouan

Kalchbrenner (1882 a) 104.
on dead branches, Somerset East, *MacOwan*.

Cyphella fulvodisca Cooke & Mass.

van der Byl (1929 c) 11 ; Nel (1942) 90.
on dead branches in bush, Durban, *v. d. Byl 318*.

Cyphella Pelargonii Kalchbr.

von Thuemen (1876 b) 378 ; Sacc. Syll. Fung. VI : 677 : van der Byl (1929 c) 11.
on **Pelargonium zonale** (Linn.) Ait., on dead cortex, Boschberg, *MacOwan 1035* (S.A.M. 34310).

Cyphella punctiformis (Fr.) Karst.

Kalchbrenner & Cooke (1880) 18 : Kalchbrenner (1882 a) 104 : Sacc. Syll. Fung. VI ; 678 ; van der Byl (1929 c) 12.
on fallen branches, Somerset East, *MacOwan* ; Maritzburg, *Rump 311*, 28673.

Cyphella tabacina Cooke & Phill.

Cooke (1882 a) 123 ; Sacc. Syll. Fung. VI : 672 ; van der Byl (1929 c) 12.
on bark, Inanda, *Medley Wood 524*, 11146, Kew.

Cyphella variolosa Kalchbr.

Kalchbrenner (1882 a) 104 ; Sacc. Syll. Fung. VI : 671.
on wood, Boschberg, *MacOwan 1047*, *1381*, 20939.

Cytidea flocculenta (Fr.) v. Höhn. & Litsch.

on dead twigs and branches, poplar bush near Wonderboom, *Doidge & Bottomley*, 28804, *Reinecke*, 23719 ; in oak woods, Kloof Neck, 24852 ; Fountains Valley, *Louwrens*, 27589 ; Mamathes, *Hean*, 32505.

Cytidea habgallae (Berk. & Br.) Martin

Martin (1942) 161.
Cytidea cornea Lloyd (1917 c) 656.
Aleurodiscus cornea Lloyd (1916 d) L. 63 : 4 ; (1920) 930.
Aleurodiscus capensis Lloyd (1920) 930 ; Stevenson & Cash (1936) 43.
Gloeosoma capensis Lloyd (1921) 1088.
on wood, Stellenbosch, *Duthie 154* (Lloyd Myc. Coll. 34063, Type of *Aleurodiscus cornea*) ; without locality, *v. d. Byl 833* (Lloyd Myc. Coll. 34029, Type of *A. capensis*).

Cytidea simulans Lloyd

Lloyd (1920) 991 ; Killermann (1928) 143 ; Stevenson & Cash (1936) 45.
near waterfall, Stellenbosch, *Garside* (Duthie 244), 31424, *Duthie 243* (Lloyd Myc. Coll. 33589, Type).

Hymenochaete Dregeana (Berk.) Mass.

Massee (1890 b) 114.
Corticium Dregeanum Berkeley (1846) 3 ; Montagne (1847) 174 ; Sacc. Syll. Fung VI : 636.
on bark in bush, Umtata, *Drège 9451 c*, *4109* (Type in Herb. Berk. no. 3956).

Hymenochaete fasciculata Talbot

Wakefield & Talbot (1948) 943.
on wood, Town Bush, *Rump 220*, 28279, Kew, Type : Town Bush, *Rump 262*, 28500.

Hymenochaete fulva Burt

on dead wood, Table Mt., Natal, *Rump 551*, *662*, 34356, 34386 ; Hluhluwe Game Reserve, *Rump 621*, 35325.

Hymenochaete fusco-violascens (Mont.) v. d. Byl

van der Byl (1929 c) 14.
Thelephora fusco-violascens Montagne (1847) 174 ; Sacc. Syll. Fung. VI : 546.
on bark of a tree, Durban, *Drège 9429*.

Hymenochaete luteo-badia (Fr.) v. Höhn. & Litsch.

van der Byl (1929 c) 13 ; Nel (1942) 90.

Stereum luteo-badium Fr., Kalchbrenner (1881) 58 ; van der Byl (1929 c) 49.

on dry wood, Natal, *Medley Wood 163*, 10654 ; Durban, *v. d. Byl 692* : Eshowe, *v. d. Byl 670* ; Zululand, *v. d. Byl 146*, *177*, *523* ; Caverns, nr. Mont-aux-Sources, *Bottomley*, 28879.

fide van der Byl, l.c., *Medley Wood 163* is *Stereum fasciatum* Schw.

Hymenochaete nigricans (Lév.) Bres.

Stereum villosum Lév., Lloyd (1916 d) L. 63 : 2.

on wood, Ngoye Forest, *Haygarth*, 15558.

Hymenochaete ochromarginata Talbot

Wakefield & Talbot (1948) 944.

on wood, Tenadu, *Pienaar*, 2133, Kew, Type.

Hymenochaete rubiginosa (Dicks.) Lév.

Léveillé (1846) 151 ; Massee (1890 b) 97 ; Eyles (1915) 277 ; van der Byl (1929 c) 14.

Stereum rubiginosum Fr., Montagne (1847) 174.

on wood, between Kei River and Bashee River, *Drège 9450*; Xumeni Forest, *Morgan & Doidge*, 30260.

Hymenochaete semistupposa Petch

on wood of indigenous tree, Krantzkop, *Rump 453*, 30232, Kew.

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Léveillé (1846) 152 ; Cheesman (1909) 411.

on dead wood, Groot Schuur, *Cheesman* ; Cato Ridge, *Rump*, 27627 ; Town Bush Valley, *Rump 210*, 28287.

Var. **australis** Mont.

Stereum tabacinum Sow. ex Fr., var. *australis* Mont., Kalchbrenner (1881) 58.

on wood, Somerset East, *MacOwan*.

Hymenochaete tenuissima Berk.

Cheesman (1909) 411 ; van der Byl (1921 g) 347.

on wood, Victoria Falls, *Cheesman* ; Ginginhlovu, *Haygarth*, 15596.

Hymenochaete tristicula (Berk. & Br.) Mass.

Wakefield (1936) 52.

on **Acacia mollissima** Willd., Sevenoaks (T.R.L. 324).

Solanum auriculatum Ait., Maritzburg, *Rump 153*, 28552.

on wood, Town Bush, *Rump 372*, 28492, Kew ; Xumeni Forest, *Morgan & Doidge*, 28937, 28946; Kandahar Is., in Zambesi River, *Hφeg 62*; Boschfontein, Wolhuterskop, *Doidge & Bottomley*, 33210 ; Buccleuch, *Leighton*, 11533 ; Cato Ridge, *Rump*, 27628, 27629 ; Bot. Gard., Maritzburg, *Rump 19*, 27553.

Peniophora arenata Talbot

Wakefield & Talbot (1948) 944.

on wood, Cato Ridge, *Rump 34*, Type, Kew, 27645 : Xumeni Forest, *Morgan & Doidge*, 28916, Kew : The Caverns, near Mont aux Sources, *Bottomley*, 28891, Kew ; Champagne Castle, *Rump 733*, 35314, Kew : Boschfontein, Wolhüters Kop, *Doidge & Bottomley*, 33209, Kew.

Peniophora carnosa Burt

on dead wood, Town Bush Valley, *Rump 107*, 27761.

Peniophora cinerea (Fr.) Cooke

Sacc. Syll. Fung. VI : 643 ; Burt (1925) 348 ; van der Byl (1929 c) 16 ; Nel (1942) 91.

Corticium cinereum Fr., von Thuemen (1878 a) 354 ; Kalchbrenner (1881) 59 ; Medley Wood (1898) 17.

on **Pyrus malus** Linn., dead branch, Stellenbosch, *v. d. Byl 326* (Mo. Bot. Gard. Herb. 63397).

on dead branches, Somerset East, *MacOwan 1054* (S.A.M. 34248) 22044 : Natal, *Medley Wood 208*.

Peniophora cremea (Bres.) Sacc. & Syd.

Burt (1925) 261 ; van der Byl (1929 c) 16 ; Nel (1942) 91.

on **Eucalyptus** sp., log, Tzaneen, *v. d. Byl 1468*.

on dry wood, Woodbush, *v. d. Byl 1488* ; Durban, *v. d. Byl 612* (Mo. Bot. Gard. Herb. 59377) ; Town Bush, *Rump 212*, 28288 : Krantzkop, *Rump 450*, 30231, 34359.

Peniophora gigantea (Fr.) Mass.

on **Pinus** sp., pitch pine timber, Lourenço Marques, *Hillman Bros.*, 30854 ; Johannesburg *Weintroub* (T.R.L. 1313) 32176 ; on Oregon pine timber ex U.S.A., 34928.

Peniophora glebulosa (Bres.) Sacc. & Syd.

van der Byl (1929 c) 15, (1926 c) 288 ; Nel (1942) 91.

on dry wood, Woodbush, *v. d. Byl 1477* ; Karkloof, *Rump 596*, 35309 ; Town Bush *Rump 280*, 28688.

Peniophora incarnata (Pers. ex Fr.) Karst.

along Aapies River, Pretoria, *Scott*, 33768.

Peniophora nuda (Fr.) Bres.

van der Byl (1929 c) 17 ; Killerman (1928) 138.

Corticium nudum Fr., Kalchbrenner (1881) 59 ; Medley Wood (1898) 17.

on dry branches, Natal, *Medley Wood 161*.

Peniophora papyrina (Mont.) Cooke

Sacc. Syll. Fung. VI : 641 ; Massee (1889 a) 140 ; A. L. Smith (1901) 471.

on dead wood, South Africa, without locality : in forests, near Lake Ivantâla, *Welwitsch 433*.

Peniophora pruinata (Berk. & Curt.) Burt

on dead wood, Somerset East, *MacOwan 1227*, Kew.

Peniophora Roumeguerii Bres.

on wood of indigenous tree, Town Bush Valley, *Rump 117*, 27764 ; ? *Rump 107*, 27761.

Peniophora setigera (Fr.) Bres. ex Bourd & Galz.

Nel (1942) 91.

on **Eucalyptus** sp., dry poles, Tzaneen, *v. d. Byl 1461*, Kew ; Woodbush, *v. d. Byl 1496*, Kew.

Peniophora velutina (DC. ex Fr.) Cooke

on wood, Town Bush Valley, *Rump 117*, 27764.

Solenia candida Pers.

on dead wood, Town Bush Valley, *Rump 223*, 28297, Kew.

Solenia minima Cooke & Phil.

Cooke (1882 a) 123 ; Medley Wood (1898) 18 ; Sacc. Syll. Fung. IX : 207.

on **Strelitzia** sp., decayed stem, Natal, *Medley Wood 482*, 10706, 11145, Kew.

Stereum adnatum Lloyd

Lloyd (1924) 1396 ; Stevenson & Cash (1936) 49.

on dead wood, Woodbush, *Doidge* (Lloyd Myc. Coll. 8112, 26706) 1708, Type ; Hilton Road, *Rump 98*, 27755, Kew ; Town Bush Valley, *Rump 222*, *232*, 28296, 28303, Kew.

Stereum affine Lév.

Wakefield (1936) 52 ; Simpson & Talbot (1946) 133.

as *Stereum glabrescens* Berk. & Curt., van der Byl (1922 b) 151, (1929 c) 37 ; Nel (1942) 92.

on old wood in indigenous forest, Ginginhlovu, *Haygarth*, 15555 ; Ngoye, *Haygarth* (v. d. Byl 259, 267) 31653, 31658; Eshowe, *Hφeg 1561*, Kew, *v. d. Byl 694*, *Noble*, 32474; Zululand, *v. d. Byl 145*, *514* (Stell. 294) ; Qudeni Forest, *Weintroub & Simpson* (T.R.L. 1690), *Simpson & Talbot*, 34952 ; Buccleuch, *Doidge*, 11628 ; Port St. Johns, *Mogg*, 27335, 27336 ; Maritzburg, *J. M. Sim*, 9206 ; Town Bush Valley, *Rump 138*, *248*, 27774, 28310, Kew ; Xumeni Forest, *Morgan & Doidge*, 28911, 30880 ; Nyassa, *Gomes de Sousa*, Kew.

Stereum albo-badium (Schw. ex Fr.) Fr.

Kalchbrenner (1881) 58 ; Sacc. Syll. Fung. VI : 579.

on dead wood, Boschberg, *MacOwan*.

Stereum australe Lloyd

Lloyd (1913 c) L. 48 : 10, (1917 a) L. 65 : 2 ; van der Byl (1922 b) 152, (1929 c) 40 ; Wakefield (1936) 52 ; Sacc. Syll. Fung. XXIII : 507 ; Stevenson & Cash (1936) 50.

Stereum lobatum (Kunze) Fr. var. *cinereum* Lloyd (1913 c) L. 46 : 3.

on old wood, Amanzimtoti, *Lansdell*, 15557 ; Town Bush, *Rump 259*, *263*, 28488, 28490 ; Town Bush Valley, *Rump*, 27522, Kew ; Gillitts, *Hargarth*, 15559 ; ? Hope Vale, *Morgan & Doidge*, 30269, 30270 ; Eshowe, *Hφeg 151* ; Fountains Valley, *Louwrens*, 27565 ; Rooikopjes, Duivelskloof, *Read* (T. R. L. 52) 28966 ; without locality, *v. d. Byl* (Lloyd Myc. Coll. 6823) ; ? Transvaal, *Brown*, 28848 ; Umgeni, near Durban, *Hobbs*, 31816 ; New Germany, *Moonsamy*, 31852.

Stereum bellum (Kunze) Sacc.

van der Byl (1929 c) 46 ; Nel (1942) 91.
on old trunks, Sevenoaks, *Platt* (v. d. Byl 645).

Stereum bicolor Fr.

Kalchbrenner (1881) 58 : Sacc. Syll. Fung. VI : 565 : Massee (1890 b) 177 ; van der Byl (1922 b) 153 ; Wakefield (1936) 53 ; Nel (1942) 91.
Stereum fuscum (Schrad.) Quél., van der Byl (1922 b) 153, (1925 b) 194, (1926 c) 288, (1929 c) 41 ; J. Phillips (1931) 160 ; Nel (1942) 92.
as *Thelephora biennis* Fr., Kalchbrenner (1881) 58 ; van der Byl (1929 c) 42.
on **Acacia mollissima** Willd., Maritzburg, *Rump*, 27784.
Eucalyptus sp., Maritzburg, *Rump 120*, 27766 : Tzaneen, *v. d. Byl 1459*.
on decaying wood, Somerset East, *MacOwan 1244* (S.A.M. 34292) : Alexandria, *MacOwan 1269* (as *Polyporus placodes* Kalchbr., ? nom. nud.) : Pirie Forest, *Schaefer*, 30891 : Deepwalls, *Bottomley*, 30698 : New Germany, *Moonsamy*, (v. d. Byl 605) 31851 ; Knysna, *v. d. Byl 2239* : Durban, *v. d. Byl 397, 650, 2239*, 31728, Kew : Maritzburg, *Rump 158*, 28555, 27596, Kew, *v. d. Byl 141* ; Zululand, *v. d. Byl 133* : Blaauwkrantz River, *Hφeg 58* : Woodbush, *v. d. Byl* ; Rooikopjes, Duivelskloof, *Read* (T.R.L. 200) 28964, Kew ; Bloemfontein, *Verwoerd*.

Stereum Bresadoleanum Lloyd

Lloyd (1913 b) 41, (1922) 1115 ; Sacc. Syll. Fung. XXIII : 508 ; Stevenson & Cash (1936) 51.
Stereum proximum Lloyd (1913 b) 40 : van der Byl (1922 b) 152, (1929 c) 38 : Stevenson, & Cash (1936) 57 ; Nel (1942) 93.
on logs, Gillitts, *Haygarth*, 15556 : Durban, *Haygarth* (v. d. Byl 192) Kew : without locality *v. d. Byl* (Lloyd Myc. Coll. 23812) 31750 ; Natal, *v. d. Byl 423, 439* (Lloyd Myc. Coll. 23840, 23841).

Stereum cinerascens (Schw.) Mass.

van der Byl (1929 c) 43 ; Nel (1942) 91.
on dead wood, trunks and fallen branches, Table Mt., Natal, *Rump* (v. d. Byl 2732) Kew : Eshowe, *v. d. Byl 683, 686, 697* : Xumeni Forest, *Doidge*, 33077, *Morgan & Doidge*, 28926 : Marwaqa Forest, *Doidge*, 33213 : Knysna, *Duthie 143* (v. d. Byl 381) 31368 ; Town Bush, *Rump 640*, 34377 ; Town Bush, *Rump 280*, 28688.

Stereum cinereum Lév.

van der Byl (1922 b) 153.
on trunks, Gillitts, *Haygarth*.

Doubtful species.

Stereum cyphelloides Berk. & Curt.

Lloyd (1920) 952, (1923) 1186.
on soil of river walls, Belvidere, Knysna, *Duthie 236* (Stell. 289) 31419.

Stereum diaphanum (Schw.) Cooke ex Sacc.

Lloyd (1913 b) 19.
on humus, Fountains Valley, *Punt*, 14516, *Bottomley*, 20403, 23160, *Parkes*, 21099, *Reinecke* 21208.

Stereum durbanense v. d. Byl

van der Byl (1922 b) 155, (1929 c) 45 ; Nel (1942) 92.
sub *Stereum subpileatum* Berk., Lloyd (1917 a) L. 66 : 15.
on old logs, Stella Bush, *Moonsamy* (*v. d. Byl 293, 294, 517*) 15613.

Stereum duriusculum Berk. & Br.

on bark, Town Bush Valley, *Rump 25*, 27604 ; ? on wood, Winters Kloof, *Rump 191*, 28473.

Stereum fasciatum (Schw.) Fr.

van der Byl (1926 c) 288, (1929 c) 49 ; Hopkins (1938 a) 110, (1939 a) 14 ; Nel (1942) 92.
Stereum ostrea (Blume & Nees) Fr., Lloyd (1920) 953.
on **Acacia mollissima** Willd., stumps and dead wood, Cramond, *Doidge*, 31033.
Celtis Kraussiana Bernh., stumps, in bush, eastern Cape, *v. d. Byl 194*.
Eucalyptus sp., stumps, Maritzburg, *v. d. Byl 577, 887* ; Dordrecht, *Grobbelaar* (v. d. Byl 768, 2450).
Trichocladus sp., stumps, eastern Cape, *v. d. Byl 176*.
on dry wood of trees undet., Nkandhla Forest, *Rump 396 a*, 30197 ; Durban, *Leslie* (v. d. Byl 774, 682), *v. d. Byl 535* ; Burghersdorp, *v. d. Byl 484* ; Pirie Forest, *Schaefer*, 30890 ; Hogsback, *N.J. G. Smith*, Kew ; Katberg, *v. d. Byl 2749* ; Knysna, *v. d. Byl 1490, 1497* ; Natal, *Medley Wood 163* (as *Stereum luteobadium*) ; Victoria Falls, *Eyles*, 23385, *v. d. Byl 671* ; Umtali, *Eyles 415* (v. d. Byl 2383).

Stereum Friesii Lév.

van der Byl (1925 b) 194, (1929 c) 46 ; Nel (1942) 92.
on old wood, Knysna, *v. d. Byl 378*.

Stereum fulvum (Lév.) Sacc.

Sacc. Syll. Fung. VI : 570 ; Massee (1890 b) 180.
Thelephora (*Stereum*) *fulva* Léveillé (1846) 149.
on trunks, Cape, *Drège*.

Stereum hirsutum (Willd. ex Fr.) Fr.

Bottomley & Carlson (1920) 852 ; van der Byl (1922 b) 154, (1922 d) 285, (1925 b) 194, (1929 c) 48 ; Doidge & Bottomley (1931) 23, 41 ; Verwoerd (1931 a) 300 ; Wakefield (1936) 52 ; Simpson & Talbot (1946) 133.
Thelephora hirsuta Willd., Berkeley (1843 b) 516.
on **Acacia decurrens** Willd., Dalton Bridge Road, *Hφeg 120, 131 b* ; Himeville *Hφeg 5* ; Impendhle District, *Hφeg 4* ; Kings Kloof, near Krugersdorp, *Talbot*, 34479.
Acacia Karroo Hayne, Bloemfontein, *Verwoerd*.
Acacia mollissima Willd., Cramond, *Doidge*, 31031 ; Nottingham Road, *v. d. Byl 542*, 31807 ; Silutshana, *Simpson & Talbot*, 34954.
Acacia sp., Kenilworth, *H. H. W. Pearson*.
Combretum glomeruliflorum Sond., Debbe's Ravine, *Bosman*, 29719.
Eucalyptus diversicolor F. Muell., Fort Cunynghame, 6615.
Eucalyptus globulus Lab., Roodepoort, *Malleson*, 12173 ; Cathcart, *D.F.O.*, 9060 Lynnwood, *Bottomley*, 13073.
Eucalyptus Maideni F. Muell., Jessievale, *D.F.O.*, 17299.
Eucalyptus paniculata Sm., on stumps, Duivelskloof (T.R.L. 388).
Eucalyptus sp., Town Bush Valley, *Hφeg 148* ; New Amianthus Asbestos Mine, *Hφeg 29* ; Wellington, *Bottomley*, 1549 ; Pretoria, *Keet*, 31525.

Heteromorpha arborescens Cham. & Schlecht., Debbe's Ravine, *Mogg*, 23374.
Olea laurifolia Lam., Schwarzwald Forest, *Keet*, 11292 ; on timber in storage, Johannesburg (T.R.L. 357).
Pinus pinaster Ait., Wellington, *Doidge*, 1017.
Pinus spp., Pretoria, *Hean*, 30720 ; Wellington, *v. d. Byl*.
Quercus Robur Linn., Kloof Nek, *Hφeg 161*, Kew.
Quercus sp., Vereeniging, *D. Gunn*, 8960 ; Stellenbosch, *Duthie* (? v. d. Byl 392) 31726, *Verwoerd* (Stell. 38).
on dead wood of trees undet., foot of Table Mt., *Eaton*, Kew ; Govt. House Grounds, Cape Town, *Eaton* ; Groote Schuur, *H. H. W. Pearson* ; Suureberg nr. Bontjesrivier, *Drège 9443* ; in forests near Uitenhage, *Zeyher 121, 122* ; Kentani, *Pegler*, 8756 ; Knysna, *Duthie 4, 9, 60, 72*, 31298, 31324 ; Keurboom Rivier, *Duthie*, 31454 ; Stellenbosch, *v. d. Byl* ; Knysna, *v. d. Byl 131, 278, 376, 382, 690, 1385* ; Newlands, *Péringuey*, 9186, *E. P. Phillips* (S.A.M. 9556) ; Signal Hill, *V. A. Putterill*, 15496 ; Table Mt., *Eyles* (v. d. Byl 1096) ; Kirstenbosch, *Bolus* (v. d. Byl 1678) ; Haenertsburg, *Thompson* (T.R.L. 277) Kew ; Woodbush, *Doidge*, 30948 ; Pretoria, *Fischer*, 30719, *v. d. Byl 2743*, Kew ; Florida (T.R.L. 614) ; Potchefstroom, *M. Gunn*, 30516 ; Johannesburg, *Bottomley*, 8776 ; Saddleback, Barberton, *Thorncroft*, 17788 ; Rooikoppies, *Bowen* (T.R.L. 203, 389) 28967, Kew ; Howick, *Leslie* (v. d. Byl 371) 31709 ; Drakensberg, *Warren* (v. d. Byl 424) 31737 ; Xumeni Forest, *Morgan & Doidge*, 28951 33067 ; Hopevale, *Morgan & Doidge*, 30261 ; Midlands, Natal, *v. d. Byl 142* ; Mamathes, *Hean*, 32504 ; van Reenen (T.R.L. 1579) ; Qudeni Forest, *Weintraub & Simpson* (T.R.L. 1705), *Simpson & Talbot*, 34953, 34956, 34957 ; Mazoe, *Eyles 673* (v. d. Byl 684) 31892 ; Mariepskop, *Scott*, 34072.
on underground mine timbers, Jubilee Mine, Pilgrim's Rest, *Brown* (T.R.L. 169) 28756, 28835 ; Randfontein Estates, *Brown*, 28859 ; Johannesburg, *Blackburn*, (T.R.L. 357) Kew ; Nourse Mines (T.R.L. 5).

Stereum involutum Klotzsch ex Fr.

Lloyd (1913 b) 40.
on **Fagara capensis** Thunb., Pungwana Forest, *D.F.O.*, 9208.
on decayed wood of tree undet., Kentani, *Pegler 2458*, 11523.

Stereum Kalchbrenneri Sacc.

Sacc. Syll. Fung. VI : 568 ; Massee (1890 b) 182 ; Lloyd (1915 a) L. 60, Note 341 ; van der Byl (1922 b) 154, (1929 c) 48 ; J. Phillips (1931) 160 ; Nel (1942) 93.

Stereum amoenum Kalchbr. & MacOwan, Kalchbrenner (1881) 58 ; not *Stereum amoenum* Lév.

Stereum hirsutum (Willd.) Fr. f. *Kalchbrenneri*, Simpson & Talbot (1946) 133.
on **Eucalyptus globulus** Lab., Randjesfontein, *Vos*, 20586 ; Wolfridge, *Dix*, 26695.
Lachnopylis floribunda (Benth.) C. A. Sm., Ebb and Flow, Wilderness, *Doidge*, 17101.
Olinia cymosa Thunb., Glebe Forest, Knysna, *J. Phillips*, 17803 ; Deepwalls, *J. Phillips*, 18146, 18151.
Quercus sp., Wolfridge, *Keet*, 11290.
Rhus viminalis Vahl, Schwarzwald Forest, *Keet* (v. d. Byl 196) 11255.
on trunks and fallen branches of trees undet., Boschberg, *MacOwan 1084, 1086* (Thuem. Myc. Univ. 1108 ; S.A.M. 34269) Kew ; Bazuja, *Baur 684, 695* ; Pirie Forest, *Schaefer*, 30893, *Archibald*, 34200 ; near Mont aux Sources, *Bottomley*, 23475 ; Highbury, *Doidge*, 27340 ; Hope Vale, *Morgan & Doidge*, 27722 ; Xumeni Forest, *Morgan & Doidge*, 28943, 30803 ; Town Bush Valley, *Rump 2, 9*, 27517, 27518, 27647 ; Winter's Kloof, *Rump 15, 17*, 27538, 27539 ; Caverns nr. Mont aux Sources, *Bottomley*, 28880 ; Blaauwberg, *Leemann*, 26697 ; The Wilderness, *Mogg*, 23670 ;

Knysna, *Pienaar*, 2344 : George, *V. A. Putterill*, 15484 : Deepwalls, *J. Phillips*, 18031, *Bottomley*, 30735 ; Pinelands, *Bottomley*, 24822 ; Stutterheim, *Sr. de Victoria*, 25879 ; Oogies, *G. Joubert*, 22085 : Waterkloof Ravine, *Bosman*, 23671 : Debbe's Ravine, *Bosman*, 24873 ; Rooikoppies, *Read* (T.R.L. 53) 28967 : Saltpan, *Pienaar*, 1952.

Stereum laxum Lloyd

Lloyd (1915 a) L. 60 : 3, 10, Note 339 ; Stevenson & Cash (1936) 55.
on wood, Knysna, *Duthie 56* (Lloyd Myc. Coll. 5973) 31321.
Doubtful species, possibly not a Stereum.

Stereum lobatum (Kunze) Fr.

Montagne (1847) 147 ; Sacc. Syll. Fung. VI : 568 : Massee (1890 b) 175 : Lorrain Smith (1901) 470; Cheesman (1909) 411; van der Byl (1922 b) 155, (1929 c) 50; J. Phillips (1931) 160 ; Simpson & Talbot (1946) 133.
? *Stereum concolor* (Jungh.) Sacc., Lloyd (1920) 952, (1923) 1186 ; Nel (1942) 91.
on **Olea laurifolia** Lam., Knysna, *Doidge*, 17811.
on wood of trees undet., Boschberg, *MacOwan* ; Bazuja, *Baur* : between Buffelsrivier and Kei, *Drège 9440 a* ; Groote Schuur, *Cheesman* ; East London, *Cheesman* ; nr. Lake Ivantâla, *Welwitsch 428* : Alexandria Forest, *Doidge*, 23347 ; Keiskama Hoek, *Keet*, 11291 ; Ebb and Flow, Wilderness, *Doidge*, 17098 ; Port St. Johns, *Mogg*, 27332, *D.F.O.*, 6980 ; George, *Verwoerd* (Stell. 234) ; Groot Rivier, *Archibald*, 33379 ; Deepwalls, *Bottomley*, 30741 ; Forest Hall, Knysna, *Duthie 6*, 31296 ; Woodbush, *Wager*, 23232, *Thompson* (T.R.L. 59) 28971 ; Buccleuch, *Doidge*, 11544, *Leighton*, 9150 ; Winters Kloof, *Rump*, 27537 ; Town Bush Valley, *Rump 268*, 28503 ; Marwaqa Forest, *Doidge*, 30837 ; Ngomi Forest, *Gerstner*, 34210 ; Zululand, *v. d. Byl 807* ; Ginginhlovu, *Haygarth* (v. d. Byl 282) 31667 ; Horseshoe, (v. d. Byl 98) 31560; Katberg Main Forest (v. d. Byl 125) 31559, 31576 ; Haenertsburg, (T.R.L. 266) : Pirie Forest, *Archibald*, 34196 ; Qudeni Forest, *Simpson & Talbot*, 34950.

Stereum Murrayi (Berk. & Curt.) Burt

van der Byl (1929 c) 39 ; Nel (1942) 93.
Stereum pulverulentum Léveillé (1846) 149 (sub *Thelephora*) ; Montagne (1847) 174; Massee (1890 b) 174.
on wood in bush, Durban, *Drège 9441* ; Zululand, *v. d. Byl 708*.

Stereum nitidulum Berk.

Cooke (1879 b) 70.
on wood, Inanda, *Medley Wood 396*, Kew ; Bloemfontein, *Potts*, 13009.

Stereum notatum Berk. & Br.

Kalchbrenner (1881) 581 ; Sacc. Syll. Fung. VI : 581.
on dead branches, Somerset East, *MacOwan 1091*, Kew ex Herb. Kalchbr. ; Bazuja, *Baur 693* ; Natal, *Medley Wood 109* (S.A.M. 43285).

Stereum ochraceo-flavum (Schw.) Peck

on wood of indigenous trees, Boschberg, *MacOwan*, 22001 ; Balgowan, *Rump 478*, 30822.

Stereum percome (Berk. & Br.) Mass.

Massee (1890 b) 185.
Cape, without locality, *MacOwan*.

Stereum perlatum Berk.

Lloyd (1920) 953 ; van der Byl (1929 c) 47 ; Nel (1942) 93.
on old wood, Natal, *v. d. Byl 144*.

Stereum purpureum (Pers. ex Fr.) Fr.

V. A. Putterill (1923 c) ; van der Byl (1929 c) 38 ; Verwoerd (1929 b) 6 ; Doidge, & Bottomley (1931) 9, 48, 49, 51.
Stereum vorticosum Fr., Berkeley (1876 a) 175.
on **Combretum** sp., Salisbury, *Eyles 2102*, 17817.
Populus alba Linn., Cape Town, *V. A. Putterill*, 15523.
Prunus armeniaca Linn., Groot Drakenstein, Stellenbosch, Wynberg, *Verwoerd*.
Prunus communis Fritsch, south-western Cape, *Dippenaar*.
Prunus persica Sieb. & Zucc., Pretoria, *Pole Evans*, 8813 ; Maritzburg, *J. M. Sim*, 9147 ; Irene, *Pole Evans*, 11297 ; Stellenbosch, *v. d. Byl* ; Ceres, *Leslie* (v. d. Byl 482).
Prunus salicina Lindl., Dwarsriviershoek, *V. A. Putterill*.
Pyrus malus Linn., Ceres, *Dippenaar*.
Quercus sp., Stellenbosch, *v. d. Byl 483*.
on host undet., foot of Table Mt., *Eaton*, Kew (as *Stereum vorticosum* Fr.).

Stereum pusillum Berk.

Lloyd (1913 b) 26, (1917 a) L. 67 : 2, (1920) 952, 1010, (1922) 1124 ; Nel (1942) 93.
on wood, Lobatsi, *Breach* (Duthie 284) 31456 ; Maritzburg, *J. M. Sim*, 8807 ; Durban *v. d. Byl 662, 614*, 31858.

Stereum radicans (Berk.) Burt

van der Byl (1929 c) 37 ; Hopkins (1938 a) 111.
on ground in damp forest, Umtali, *Eyles 4153*.

Stereum Ravenelii Berk. & Curt.

Lorrain Smith (1901) 470 ; Lloyd (1913 b) 25.
chiefly on dead **Eriocaulon** near Lopollo, *Welwitsch 425*.
on dead grasses and other plants, near Monimo, *Welwitsch 427*.

Stereum retirugum Cooke

Lloydella retiruga (Cooke) Bres., Torrend (1905) 220.
Moçambique (Torrend).

Stereum rimosum Berk.

Lloyd (1913 c) L. 46 : 4.
on dead wood of indigenous trees, Town Bush, *Rump 221, 222, 232, 615, 638*, 28295, 28296, 28303, 34365, 34375 ; Nkandhla Forrest, *Rump 395*, 30196.

Var. **africanum** Talbot

Wakefield & Talbot (1948) 945.
on wood, Karkloof, *Rump 486*, Type, 30233, Kew ; Xumeni Forest, *Morgan & Doidge*, 30268, Kew ; Entabene, *Bower*, 30777, Kew ; Town Bush, *Rump 205*, 28285, Kew.

Stereum rugosum (Pers.) Fr.

on wood, Woodbush (comm. W. Nelson) Kew ; Table Mt., Natal, *Rump 664*, 34394.

Stereum sanguinolentum (Alb. & Schw. ex Fr.) Fr.

on **Acacia mollissima** Willd., and on **Pinus** sp., Rosetta, *Rump 1514*, 33248.
on dead wood, Xumeni Forest, *Morgan & Doidge*, 28933.

Stereum Schomburgkii Berk.

van der Byl (1929 c) 431 ; Wakefield (1936) 52 ; Nel (1942) 93 ; Simpson & Talbot (1946) 133.

Corticium atrocinereum Kalchbr. in Herb. Kew.
Stereum atrocinereum (Mass.) van der Byl (1929 c) 44.
Peniophora atrocinerea Massee (1889) 141 ; Sacc. Syll. Fung. IX : 237.
as *Stereum membranaceum* Fr. in Pole Evans & Bottomley (1918) 192.
on **Morus** sp., Maritzburg, *Rump 669*, 33990.
Tamarindus indica Linn., on dead stump, Durban, *v. d. Byl 685, 738.*
Vepris lanceolata (Lamk.) D. Don., Xumeni Forest, *Doidge*, 33074.
on dead wood of trees undet., Winters Kloof, *Rump 20, 21*, 27552, 27544 ; Town Bush, *Rump 252, 258, 235, 274, 273, 278*, 28496, 28499, 28304, 28504, 28493, 28687 ; Town Bush Valley, *Rump 181, 104, 30*, 28565, 27758, 27607 ; Cato Ridge, *Rump*, 27644, Kew ; Xumeni Forest, *Morgan & Doidge*, 28942, 30881 ; Solheim M.S., *Hφeg 67*, Kew ; Durban, *v. d. Byl 695, 697* ; Eshowe, *v. d. Byl 697* ; Knysna, *v. d. Byl 1057, 1386* ; Kromrivier, *Doidge & Bottomley*, 33179 ; Salisbury, *Eyles*, 23384 ; Qudeni Forest, *Simpson & Talbot*, 34284 ; Kentani, *Pegler 1234*, 8414, 34454 ; Toise River, *Pienaar*, 2301.
on trunks of trees, Boschberg, *MacOwan 1197* (S.A.M. 34284), sub *Peniophora* in Herb. Kew.

Stereum spadiceum Fr.

Lloyd (1913 c) L. 46 : 8 ; Brown (1936) 388.
on **Salix** sp., Harrismith, *V. A. Putterill*, 12993.
on wood of tree undet., Woodbush, *Roberts*, 5651.
on mine timbers, Witwatersrand, *Brown*.

Stereum tenebrosum Lloyd

Lloyd (1917 a) L. 67 : 16, Note 692 ; Stevenson & Cash (1936) 58.
on wood of tree undet., Maritzburg, *Pole Evans*, 1464 ; Groenkloof, *L. C. Turner*, 8847 ; *Howlett*, 12798 ; without locality, comm. *Bottomley* (Lloyd Myc. Coll. 23525--23527) ; without locality, *Pole Evans* (Lloyd Myc. Coll. 6815, filed as *Stereum lobatum* var. *cinereum*) and *v. d. Byl* (Lloyd Myc. Coll. 6396).

Nomen nudum, possibly identical with *Stereum australe.*

Stereum Thozetii Berk.

Massee (1890 b) 165 ; van der Byl (1929 c) 36 ; Nel (1942) 94.
? as *Stereum elegans* Mey., Kalchbrenner (1881) 58 ; Sacc. Syll. Fung. VI : 553.
amongst grass after rain, ? Somerset East, *MacOwan 1232* (S.A.M. 34266) Kew ; Onolonga, *Barnard* (v. d. Byl 2528, 2530 ; S.A.M. 45947) ; Inanda, *Medley Wood 396*, 10653 ; Groenkloof, Pretoria, *Pole Evans*, 8933.

Stereum tomentosum v. d. Byl

van der Byl (1922 b) 156, (1929 c) 45 ; Nel (1942) 94.
sub *Stereum subpileatum* Berk., Lloyd (1917 a) L. 66 : 15.
on old logs, Durban, *v. d. Byl 132, 305*, 32478, Type.

Stereum transvaalium v. d. Byl

van der Byl (1929 c) 40 ; Nel (1942) 94.
on **Eucalyptus** sp., dry branches, Tzaneen, *v. d. Byl 1472*, Type.
on dead wood of tree undet., Woodbush, *v. d. Byl 1646*.

Stereum turgidum Lloyd

Lloyd (1916 d) L. 63 : 15 ; Stevenson & Cash (1936) 58.
Stereum caperatum Lloyd (1913 b) 17, (1915 b) 549, not *Stereum caperatum* (Berk & Mont.) Mass.
on dead wood, Woodbourne, Knysna, *Duthie 74* (Lloyd Myc. Coll. 6416, Type) 31332 ; Nottingham Road, *v. d. Byl 428*, 31740.

Stereum umbrinum Berk. & Curt.

van der Byl (1929 c) 42 ; Hopkins (1938 a) 111 ; Nel (1942) 94.
sub *Hymenochaete pellicula* Berk. & Br., van der Byl, l.c.
? as *Peniophora purpurea*, Lloyd (1916 d) L. 63 : 4.
on **Eucalyptus** sp., dry wood, Town Bush Valley, *Rump 122*, 27767, Kew.
Populus sp., along Aapies River, near Zoo, Pretoria, *Scott*, 33392.
on trunk of living tree, Boschberg, *MacOwan 1056* (S.A.M. 34315) ; on dry wood and bark, Town Bush Valley, *Rump 122*, 27767 : Town Bush, *Rump 208, 209, 218, 651*, 28276, 28294, 28702, 28277, Kew, 34381 : Table Mt., Natal, *Rump 553, 664*, 34357, 34393 ; Cato Ridge, *Rump*, 27626, Kew : Umgeni Bush, *Rump 433*, 30220 ; Pirie Forest, *Schaefer*, 30892 ; Izotsha, *v. d. Byl 680, 699* ; Knysna, *Duthie 102*.

Stereum vellereum Berk.

Lloyd (1917 a) L. 66 : 8 ; van der Byl (1922 b) 156, (1922 d) 285, (1929 c) 47 ; Hopkins (1938 a) 111 ; Nel (1942) 94.
on **Acacia mollissima** Willd., dead wood, Maclear, *Pienaar*, 2131.
Olinia cymosa Thunb., Knysna, *J. Phillips* (v. d. Byl 2229).
Quercus sp., Klapmuts, *v. d. Byl 147* ; Stellenbosch, *v. d. Byl*.
on dead wood, Klapmuts, *v. d. Byl 143, 191*, 15610 ; Xumeni Forest, *Morgan & Doidge*, 30879 ; Marandellas, *Eyles* 3892 (v. d. Byl 1717) ; Kenilworth, Cape, *H. H. W. Pearson*.

Stereum versicolor (Sw. ex Fr.) Fr.

Fries (1848) 23 ; Kalchbrenner (1881) 58 ; Sacc. Syll. Fung. VI : 561 ; Massee (1890 b) 173 ; van der Byl (1929 c) 49.
on decaying wood, Natal, *Wahlberg* ; inland regions of the Cape, *Wahlberg* ; Boschberg, *MacOwan 1084, 1163, 1276* ; Woodbush, *D.F.O.*, 7104, *Doidge*, 1717 ; Concordia, Knysna, *Keet*, 10110.
fide van der Byl, l.c., *MacOwan 1276* (S.A.M. 34265) is *Stereum fasciatum* Schw.

Stereum vitile Fr.

Fries (1848) 23 ; Sacc. Syll. Fung. VI : 569 ; Massee (1890 b) 193.
on trunks, Natal, *Wahlberg*.
fide Wakefield, this fungus has not been recognised since the original collection and it is doubtful whether a specimen exists.

Thelephora intybacea Pers. ex Fr.

van der Byl (1922 d) 285, (1927 c) 32 ; Nel (1942) 94.
on **Cedrus Deodara** Loud., Belfast, *D.F.O.*, 25863.
under pine trees, Stellenbosch, *v. d. Byl 922*, *Verwoerd* (Stell. 42) ; Klapmuts, v. d. Byl 214 ; Cape Town, Levyns (v. d. Byl 1263) ; Knysna, *Verwoerd* (Stell. 444) ; on ground amongst grass, Stellenbosch, *v. d. Byl 1261.*

Thelephora palmata (Scop.) Fr.

Medley Wood (1898) 19 ; van der Byl (1929 c) 31.
on the ground, Natal, *Medley Wood 3497.*

Thelephora penicillata Lloyd

Lloyd (1920) 960, 989 ; van der Byl (1926 c) 285, (1929 c) 32 ; Nel (1942) 94, as *Thelephora pedicellata* ; Stevenson & Cash (1936) 60.
on fallen pine needles, Stellenbosch, *Krige* (Duthie 231 ; v. d. Byl 1143 ; Lloyd Myc. Coll. 31336) 31417, 31500.
on soil, Stellenbosch, *Verwoerd.*

Thelephora terrestris Ehrenb. ex Fr.

Montagne (1847) 173 ; Doidge & Bottomley (1931) 50.
Thelephora laciniata Pers. ex Fr., MacOwan (1895) 331 ; Davidson (1909) 617.
on **Cedrus Deodara** Loud., Potchefstroom, 19852.
Pinus caribaea Morelet, Macmac Plantation, Graskop, *D.F.O.*, 27330.
Pinus radiata Don., Cedara, *Davidson* ; Knysna, *D.F.O.*, 13020.
Pinus taeda Linn., Macmac Plantation, *D.F.O.*, 27329, 27560.
Pinus spp., Pan, *Legat*, 1067 ; Pretoria, *D. Gunn*, 10049 ; Meintjes Kop, *Punt*, 14635 ; Bloemfontein, *Gemmell*, 20364 ; Parys, *Doidge*, 28602 ; Pretoria, *Hean*, 30616 ; Fairy Glen road, *Doidge*, 30712.
on wood of tree undet., du Toits Kloof, *Drège 9445* ; Boschberg, *MacOwan 1445* (S.A.M., 34298) ; Fort Cunynghame, *T. R. Sim* ; on decayed pine needles, Stellenbosch *Duthie* (E. L. Stephens 27) 34473.

CLAVARIACEAE.

Clavaria abietina Pers. ex Fr.

Lloyd (1920) 952, (1922) 1160.
under trees, Knysna, *Duthie 259.* 31436 ; Brenton, Knysna, *Duthie 323*, 31487.

Clavaria byssiseda Pers. ex Fr.

Sacc. Syll. Fung. VI : 706.
on wood, Somerset East, *MacOwan 1097* (S.A.M. 34320, sub *C. lorithamnus* Berk.).

Clavaria capensis Thunb.

Thunberg (1800) 182, (1823) 755.
Cape, *Thunberg.*
" Obviously not a *Clavaria* ; perhaps an immature *Xylaria* " : E. M. Wakefield.

Clavaria cinerea Bull. ex Fr.

Lloyd (1920) 1073.
under trees, Milwood Forest, near Balmoral, *Duthie 261*, 31438.

Clavaria Cladoniae Kalchbr.

Kalchbrenner (1882 a) 105 : Sacc. Syll. Fung. VI : 710 ; van der Byl (1932 a) 323.
on dead leaves, Somerset East, *MacOwan 1431*, 20849.

Clavaria contorta Holmsk. ex Fr.

on dead wood, Saltpan, Louis Trichardt, *Verdoorn & Schweickerdt*, 27509.

Clavaria corniculata Schaeff. ex Fr.

Clavaria muscoides Linn., Thunberg (1823) 756.
Cape, *Thunberg*.
Var. **pratensis** (Fr.) Cotton & Wakefield.
Clavaria fastigiata Linn., A. L. Smith (1901) 472.
in grassy pastures, among thickets, Monimo Highlands, Huila, *Welwitsch 421*.

Clavaria cristata (Holmsk. ex Fr.) Fr.

Kalchbrenner (1882 a) 105 ; Sacc. Syll. Fung. VI : 695 ; van der Byl (1932) 321 ; Hopkins (1938 a) 111 ; Nel (1942) 64.
on ground, Somerset East, *MacOwan* ; Salisbury, *Eyles 4132* (v. d. Byl 2379).

Clavaria cyanocephala Berk. & Curt.

van der Byl (1925 b) 194 ; J. Phillips (1931) 160 ; Nel (1942) 64.
on ground in forest, Knysna, *du Preez* (v. d. Byl 1331).

Clavaria dealbata Berk.

van der Byl (1932 a) 320 ; Hopkins (1938 a) 111 ; Nel (1942) 64.
on ground in damp woods, *Eyles 4125*, Umtali (v. d. Byl 2378).

Clavaria durbana v. d. Byl.

van der Byl (1932 a) 322 ; Nel (1942) 64.
on dead tree stump, Durban, *v. d. Byl 661*, Type.

Clavaria filaris Kalchbr.

Kalchbrenner (1882 a) 106 ; Sacc. Syll. Fung. VI : 714.
on rotten wood, Somerset East, *MacOwan 1097 b*.

Clavaria flaccida Fr.

Lloyd (1920) 1010 ; van der Byl (1932 a) 322 ; Hopkins (1938 a) 111.
on ground, between dead leaves in woods, Boschberg, *MacOwan 1097* ; Durban, *v. d. Byl 652* ; Fountains Valley, *Hean*, 30568, *Bottomley & Lansdell*, 28593, *Fouché*, 20358, *Punt*, 14496, 18145, *Howlett*, 12808 ; Garstfontein, *Pienaar*, 1346, Kew ; below Hartebeestpoort Dam, *Erens*, 30620 ; Pretoria, *Schaefer*, 30614 ; Salisbury, *Eyles 2528* (v. d. Byl 1875) 14854 ; Haenertsburg, (T.R.L. 267).

Clavaria inaequalis Müller ex Fr.

Medley Wood (1898) 17 : van der Byl (1932 a) 319 ; Killermann (1928) 153.
on wood, Natal, *Medley Wood 671*, Kew.

Clavaria Kalchbrenneri Sacc.

Sacc. Syll. Fung. VI : 710 ; van der Byl (1932 a) 323.
Clavaria dichotoma Kalchbrenner (1882 a) 105.
between rotting leaves, Boschberg, *MacOwan 1219*.

Clavaria Kunzei Fr.

Kalchbrenner & Cooke (1880) 27 ; Medley Wood (1898) 17 ; van der Byl (1932 a) 321 ; Simpson & Talbot (1946) 133.
on **Xymalos monospora** (Harv.) Baill., Qudeni Forest, *Simpson & Talbot*, 34958, 34959.
on ground, *Medley Wood 148*, 10165, 11211, 22093.

Clavaria laeticolor Berk. & Curt.

Kalchbrenner (1882 a) 105 ; Sacc. Syll. Fung. VI : 725 ; van der Byl (1932 a) 320.
on woody roots and in grass, Somerset East, *MacOwan 1099*, *1123* (S.A.M. 32321) ; ? Haenertsburg, *S. Thompson*, 29944.

Clavaria ligula Schaeff. ex Fr.

Kalchbrenner (1882 a) 105 ; Sacc. Syll Fung. VI : 722 ; van der Byl (1932 a) 320.
on humus formed from fallen leaves, Boschberg, *MacOwan 1194* ; Stellenbosch, Flats, *Duthie 334*, 31493.

Clavaria miniata Berk.

Berkeley (1843 b) 516 ; Sacc. Syll. Fung. VI : 727.
on sandy ground amongst mosses, Uitenhage, *Zeyher 47*.

Clavaria persimilis Cotton

Lloyd (1920) 1073.
on ground, Knysna Forest nr. Balmoral, *Duthie 260*, 31437.

Clavaria pistillaris Linn.

von Thuemen (1877) 408 ; Sacc. Syll. Fung. VI : 722 ; van der Byl (1932 a) 319.
in forests, Boschberg, *MacOwan*.

Clavaria pulchra Peck

van der Byl (1932 a) 320 ; Hopkins (1938 a) 111 ; Nel (1942) 64.
on ground, Stellenbosch, *Eyles* (v. d. Byl 1109), *Verwoerd* (Stell. 49 ; v. d. Byl 1147, 1447) ; Vlaeberg, *E. L. Stephens* ; Rosenhaugh, *Mogg*, 29963 ; Garstfontein, *Wager*, 25458 ; Xumeni Forest, *Morgan & Doidge*, 28781 ; Signal Hill, *E. L. Stephens* (v. d. Byl 2605) ; Haenertsburg, *Thompson* (T.R.L. 268) 34401 ; Salisbury, *Eyles 4102* (v. d. Byl 2377) ; Johannesburg, *le Roux*, 34183.

Clavaria semivestita Berk. & Br.

Kalchbrenner (1882 a) 105 ; Sacc. Syll. Fung. VI : 709 ; van der Byl (1932 a) 321.
on ant heaps, Somerset East, *MacOwan*.

Clavaria setacea Kalchbr.

Kalchbrenner (1882 a) 105 ; Sacc. Syll. Fung. VI : 710 ; van der Byl (1932 a) 323.
Somerset East, *MacOwan*.

Clavaria stricta Pers. ex Fr.

Lloyd (1916 d) L. 63 : 4.
Brenton, Knysna, *Duthie 135*, 31363.

Clavaria vermicularis Fr.

as *Clavaria vermiculata* Mich., van der Byl (1932 a) 319 ; Nel (1942) 65.
Kirstenbosch,*E. L. Stephens* (v. d. Byl 2546).

Clavaria Zippellii Lév.

van der Byl (1932 a) 322.
on ground in forest, Knysna, *du Preez*.

Lachnocladium cristatum Lloyd

Lloyd (1920) 890 ; Stevenson & Cash (1936) 63.
Forest Hall, Knysna, *Duthie 218*. Type (Lloyd Myc., Coll. 34297 ; v. d. Byl 2632) 31406 ; Cape, *E. L. Stephens*, 26657.

Lachnocladium furcellatum (Fr.) Lév.

Sacc. Syll. Fung. VI : 738.
Clavaria furcellata Fr., Kalchbrenner (1882 a) 105.
on decaying wood, Boschberg, *Tuck* (MacOwan 1097 b).

Lachnocladium semivestitum Berk. & Curt.

Medley Wood (1898) 18.
Natal, *Medley Wood 700*, 10387 ; ? Salisbury, *Hopkins* (Rh. 4408) 30527.

Lachnocladium Zenkeri P. Henn.

on humus, Transvaal, *V. A. Putterill*, 12252.

Pterula multifida Fr.

P. Hennings (1892) 340.
Pterula penicillata Berk. ex Lloyd (1919 a) 863, (1924) 1318, 1340.
on decaying branches, Pondoland, *Bachmann 1888* ; Natal, *Medley Wood 148*, 26862 ; Fountains Valley, *Bottomley*, 14634, 18183, 23172, *L. Turner*, 11538, 20661, *Hean*, 30567.

HYDNACEAE.

Grammothele mappa Berk. & Curt.

Lloyd (1916 c) 581, (1922) 1167 ; v. d. Byl (1925 b) 194, (1934) 8 ; Nel (1942) 65 ; Simpson & Talbot (1946) 132.
on **Gymnosporia** sp., on rotting wood, Horseshoe, *v. d. Byl 177*, 31604.
Ilex mitis (L.) Radlk., rotting wood, Katberg Main Forest, *v. d. Byl 287*, 11289.
on dead wood of tree undet., Buffelsnek, Knysna, *v. d. Byl 726* ; Qudeni Forest, *Simpson & Talbot*, 34963.

Grandinia bicolor Talbot

Wakefield & Talbot (1948) 947.
on wood, Town Bush, *Rump 100*, Type, Kew, 27756, *Rump 270*, *215*, *217*, 28502, 28291, 28292, Kew.

Grandinia rosea P. Henn.

van der Byl (1934) 8 ; Nel (1942) 65.
on rotting branch, Eshowe, *v. d. Byl 706*.

Hydnum ambiguum Berk. & Br.

Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 466.
on dead wood, Bazuja, *Baur*.

Hydnum auriscalpium Linn. ex Fr.

Klapmuts, *A. M. Acocks*, 27671.

Hydnum cinnabarinum (Schw.) Fr.

Lloyd (1911 b) L. 35 : 3.
Cape, *Becker*.

Hydnum coralloides Scop. ex Fr.

van der Byl (1925 b) 194, (1934) 6 ; Nel (1942) 66.
on rotten wood, Knysna, *v. d. Byl 1383, 2319*.

Hydnum flavidum Lloyd

on timber, van Rhyn Deep Mine, *Weintroub*, (T.R.L. 75), 28976.

Hydnum longispinosum Lloyd ex v. d. Byl

Lloyd (1923) 1186 ; van der Byl (1928 a) 185, (1925 b) 194, (1934) 7 ; Stevenson & Cash (1936) 68 ; Nel (1942) 65.
on old wood, Knysna, *v. d. Byl 775*.

Hydnum mucidum Pers.

Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 471.
on bark of various trees, Boschberg, *MacOwan 1067* (S.A.M. 34356).

Hydnum (Gyrodontium) pulcher Lloyd

Lloyd (1920) 918 ; van der Byl (1934) 7 ; Nel (1942) 65.
as *Hydnum pulchrum* Lloyd, Stevenson & Rands (1936) 69.
on dead stumps, Durban, *Leslie* (v. d. Byl 534, 766) ; without locality, *v. d. Byl 881* (Lloyd Myc. Coll. 26569).

Hydnum sclerodontium Berk. & Mont.

on mine timbers, Jubilee Mine, Transvaal G.M. Estates, *Brown* (T.R.L. 165) Kew.

Hydnum setosum (Pers.) Bres.

van der Byl (1934) 7.
? as *Hydnum Henningsii* Bres., Lloyd (1916 c) 597.
on **Acacia mollissima** Willd., on dead wood, Concordia, Knysna, *Keet*, 13067.
on dead wood of trees undet., Balgowan, *Rump 274*, 28801 ; Spitzkop, nr. Table Mt., Natal, *Rump*, 26844 ; Pretoria, *v. d. Byl*, 15560, *Kresfelder*, (v. d. Byl 40) 31537 ; Benton, Knysna, *Duthie 88*.

Irpex africanus v. d. Byl

van der Byl (1934) 5 ; Nel (1942) 66.
on rotting wood, without locality, *v. d. Byl 559*.

Irpex deformis Fr.

Kalchbrenner (1881) 57 ; MacOwan (1895) 330 ; Sacc. Syll. Fung. VI : 491.
on **Eucalyptus** sp., on dead wood, Fort Cunynghame, *T. R. Sim.*
on fallen branches, Boschberg, *MacOwan 1077* (S.A.M. 34374) Kew.

Irpex flavus Klotzsch

Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 486 ; Lorrain Smith (1901) 470 ; Torrend (1905) 220 ; van der Byl (1934) 4 ; Wakefield (1936) 48 ; Hopkins (1938 a) 111 ; Nel (1942) 66.
on **Crotalaria agatiflora** Schweinf., Schagen, *Liebenberg*, 33141.
Eucalyptus saligna Sm., dead trunk, Onderstepoort, *Mogg*, 23717.
Eucalyptus sp., poles, Tzaneen, *v. d. Byl 1469*.
on dead branches of trees undet., Natal, *Medley Wood 202* ; Umtali, *Eyles 4245*, (v. d. Byl 2411) ; nr. Schoenberg, north of Hluhluwe, *Hφeg 34* ; nr. Lake Ivantâla, *Welwitsch 489* ; Stutterheim, *Sr. de Victoria*, 25874 ; Rhenosterbos, Marico District, *Weintroub* (T.R.L. 306) 29969, Kew ; Roodekop, *M. R. H. Thomson*, 14846 ; Potgietersrust, *Grosskopf & Malherbe* (v. d. Byl 2181) ; nr. Pretoria, *Mogg* (v. d. Byl 1473) ; Fairy Glen Road, *Doidge*, 30694 ; Pretoria District, *Schaefer*, 33940 ; near Witnek, 10 miles east of Sonderwater, *Pont*, 34094 ; Moçambique (Torrend).

Irpex fusco-violaceus (Ehrhenb. ex Fr.) Fr.

van der Byl (1925 b) 194 ; J. Phillips (1931) 160 ; Nel (1942) 66.
on wood, Knysna, *v. d. Byl 380, 385*.

Irpex grossus Kalchbr.

Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 486.
on fallen branches, ? Boschberg, *MacOwan 1092* (S.A.M. 34373) 22049, Kew.

Irpex lacteus Fr.

Lloyd (1920) 952 ; van der Byl (1934) 5 ; Nel (1942) 66.
on fallen twigs, Durban, *v. d. Byl 529*.

Irpex modestus Berk. ex Cooke

van der Byl (1934) 4 ; Nel (1942) 66.
on **Acacia mollissima** Willd., Impolweni, *Rump 169*, 28476 ; Town Bush Valley, *Rump 182, 183*, 28566, 28567.
on indigenous trees, Town Bush Valley, *Rump 85*, 27789 ; Town Bush, *Rump 213*, 28289, Kew ; Maritzburg, *v. d. Byl 602, 669*, Kew ; Durban, *v. d. Byl 674*, Kew.

Irpex obliquus (Schrad. ex Fr.) Fr.

Medley Wood (1898) 18 ; van der Byl (1934) 3.
? as *Irpex tabacinus* Berk. & Curt., Kalchbrenner (1881) 57.
on bark, Inanda, *Medley Wood 216* (S.A.M. 34372).

Irpex vellereus Berk. & Br.

Lloyd (1916 c) 582, 598 ; J. Phillips (1931) 160 ; van der Byl (1934) 4 ; Nel (1942) 66.

on **Olea laurifolia** Lam., dead wood, Schwarzwald Forest, *Keet*, 11248, 15602.
on old wood of tree undet., Knysna, *J. Phillips* (v. d. Byl 2213) ; Pirie Forest, *v. d. Byl 202*, 31620.

Lopharia javanica P. Henn. & E. Nym.

Radulum javanicum (P. Henn.) Lloyd (1920) 952 ; Stevenson & Cash (1936) 74.
without locality, *v. d. Byl 693, 714* (Lloyd Myc. Coll. 24457, 24458).
According to Lloyd (1917 b) 12, this is a form of *Lopharia mirabilis* (Berk. & Br.) Pat.

Lopharia mirabilis (Berk. & Br.) Pat.

van der Byl (1934) 2 ; Nel (1942) 66.
Lopharia lirellosa Kalchbr. & MacOwan, Kalchbrenner (1881) 58 ; Sacc. Syll. Fung. VI : 500 ; Killermann (1928) 161.
Radulum lirellosum (Kalchbr. & MacOwan) Lloyd (1914) L. 53 : 9, (1915 a) L. 59 : 4 ; Stevenson & Rands (1936) 74.
Radulum mirabile Lloyd (1917 b) 3, 11, 12 ; Nel (1942) 109.
on **Canthium** sp., dead branch, Durban, *v. d. Byl 551*.
on dead wood, Boschberg, *MacOwan 1412* (S.A.M. 34342) Kew ; Forest Hall, Knysna, *Duthie 264* ; Knysna, *Duthie 35, 113, 196* (Lloyd Myc. Coll. 24453, 24461, 24462) 31309, 31356, 31397, and *v. d. Byl 2261, 2763*, Kew ; Durban, *v. d. Byl 399, 1429*, Kew ; South Coast of Natal, *Rump* (v. d. Byl 2620) ; Town Bush Valley, *Rump 84*, 27797 ; Town Bush, *Rump 225, 231*, 28299, 28302, 28697, Kew ; Winters Kloof, *Rump*, 27535 ; Hilton Road, *Rump 92*, 27799, Kew ; Boschfontein, Wolhuter's Kop, *Doidge & Bottomley*, 33205.

Radulum orbiculare Fr.

Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 493.
on dead wood, Somerset East, *MacOwan*.

Mucronella aggregata Fr.

on decaying wood, Cape, *Duthie 194*, 31396.

Mycoleptodon ochraceum (Pers.) Pat.

Hydnum ochraceum Pers. ex Fr., Kalchbrenner & Cooke (1880) 27 ; Medley Wood (1898) 17.
Hydnum pudorinum Fr., Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 456.
on rotting wood, Bazuja, *Baur 699* ; Inanda, *Medley Wood 27, 479*, 10395, 11143 ; Town Bush Valley, *Rump 82*, 27796, Kew ; Qudeni Forest, *Simpson & Talbot* (T.R.L. 2021).

Odontia arguta Quél.

van der Byl (1934) 8 ; Nel (1942) 66.
on rotting wood, Stikland, *Acocks* (v. d. Byl 2638, 2725) 27273, Kew ; Groote Schuur, Acocks (v. d. Byl 2726) ; Xumeni Forest, *Morgan & Doidge*, 28913 ; Kromrivier, *Doidge & Bottomley* 33184 ; The Caverns, near Mont-aux-Sources, *Bottomley*, 28883.

Odontia knysnana v. d. Byl

van der Byl (1934) 9 ; Nel (1942) 66.
as *Odontia* sp., van der Byl (1925 b) 194.
on decaying wood, Knysna, *v. d. Byl 1332*, Kew.

Odontia saccharicola Burt

Stevenson & Rands (1938) 287.
on **Saccharum officinarum** Linn., on lower leaf sheaths, Union of South Africa.

Phlebia strigoso-zonata (Schw.) Lloyd
on dead wood, Town Bush Valley, *Rump*, 27646, Kew.

Ptychogaster sp.

Simpson & Talbot (1946) 133
on **Olea laurifolia** Lam., timber in storage, Johannesburg (T.R.L. 359) ; bark of fallen log, Qudeni Forest (T.R.L. 1668) ; on dead stumps and living tree, Qudeni Forest, *Simpson & Talbot*, 35015.
on indigenous tree, Witpoortje Falls (T.R.L. 1800).

POLYPORACEAE.

Merulioideae.

Merulius Corium (Pers. ex Fr.) Fr.

Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 413.
on branches, Somerset East, *MacOwan* : Kuils River, *Acocks*, 26654 ; Cato Ridge, *Rump*, 27631 ; Caverns, *Bottomley*, 28885 ; Durban, *v. d. Byl 1438*.

Merulius gelatinosus Lloyd

Lloyd (1922) 1158, 1160 ; Stevenson & Cash (1936) 95.
on old logs, Belvidere, Knysna, *Duthie 314*, Type (Lloyd Myc. Coll. 19979) 31481 ; Stellenbosch, *Verwoerd* (Stell. 169).

Merulius himantoides Fr.
on decaying timber, Sabi (T.R.L. 2090) ; Exchange Yard, Johannesburg (T.R.L. 361).

Merulius lacrymans (Wulf ex Fr.) Fr.

Lloyd (1913 c) L. 47 : 3 ; van der Byl (1922 d) 285 ; Nel (1942) 77.
on **Pinus** sp., flooring boards, Ladysmith, *Eckbo*, 23686 ; Cape Town, *Baker, Kendall & Morris*, 12458 ; Stellenbosch, *v. d. Byl 1713, Duthie 23*, 31502.

Merulius Pinastri (Fr.) Burt

as *Merulius* sp , Brown (1936) 384.
? on underground mine timbers, New Modder Mine, Johannesburg, *Lurie*, 27559.

Merulius rufus Pers. ex Fr.
on wood, Town Bush Valley, *Rump 86*, 27790.

Merulius serpens Tode ex Fr.

Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 417.
on decaying wood, Somerset East, *MacOwan*.

Merulius squalidus Fr.
? on rotten wood, Newlands, *E. L. Stephens*, 24861.

Merulius tremellosus Schrad. ex Fr.

on dead branch, Garstfontein, *Doidge*, 1350, Kew.

POLYPOROIDEAE.

Amauroderma argenteofulvum (v. d. Byl) nov. comb.

Polyporus argenteofulvus van der Byl (1927) 225 ; Hopkins (1938 a) 112 ; Nel (1942) 78.
on ground, Salisbury, *Eyles 4110* (v.d. Byl 2421) Type ; on humus, Melmoth, *Rump 407*, 30207.

Amauroderma fuscoporia Wakef.

Wakefield & Talbot (1948) 948.
on ground, Salisbury, *Hopkins* (Rh. 4441.)

Amauroderma rugosum (Blume & Nees)*

Ganoderma rugosum (Blume & Nees) Bres., Hopkins (1938 a) 114 ; Simpson & Talbot (1946) 134.
? as *Polyporus rudis* Lloyd, Nel (1942) 83.
on **Acacia decurrens** Willd., Natal Midlands, *Ledeboer*.
Acacia mollissima Willd., stumps and roots, Hopevale, *Morgan & Doidge*, 27714 ; Hilton Road, *Doidge*, 31081 ; Cramond, *Doidge*, 31080 ; Sevenoaks, (T.R.L. 334) ; Cathkin Peak (T.R.L. 544) ; Qudeni Forest (T.R.L. 1685) ; Qudeni forest and Silutshana, *Simpson & Talbot*, 34980 ; common in wattle growing areas, *Ledeboer*.
on rotted wood, Bizana (T.R.L. 289) ; Eshowe, *Hyslop* (v. d. Byl 432) 31744 ; ? Maritzburg, *Rump* (v. d. Byl 2552, 2553).
on sandy soil, Umtali (Rh. 1302) Kew.
* Author of combination not traced.

Daedalea biennis (Bull. ex Fr.) Fr.

Polyporus heteroporus Fr., Lloyd (1920) 1010, 1073.
as *Polyporus rufescens* Fr., Lloyd (1911 b) L. 38 : 3, (1915 a) L. 56 : 2 ; Nel (1942) 83.
on **Morus alba** Linn., Edendale, Pretoria District, *Pole Evans*, 8768.
on dead wood, Kirstenbosch, *Middlemost*, 24855 ; without locality, *Pole Evans*, *Duthie* ; under Araucaria tree, Cape Town, *Levyns* (v. d. Byl 2435).

Daedalea Dregeana Mont.

Montagne (1847) 171 ; Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 377.
? as *Trametes Dregeana*, Lloyd (1917 a) 12 ; Nel (1942) 86.
on **Acacia** sp., Alicedale, *Cruden*, 12183 ; Fountains Valley, *Sellschop*, 11247, 15635.
on tree trunks, " Zwartkopsrivier, between Omtata and Omsamwubo ", *Drège 9419* **b** ; in bush near Durban, *Drège* ; Somerset East, *MacOwan 1065*, Kew ; on dead wood, Hope Vale, *Morgan & Doidge*, 27706 ; Schroeders, *v. d. Byl 554*, 31765 ; Durban, *v. d. Byl, 31974*.

Daedalea Eatoni Berk.

Berkeley (1876 a) 173 ; Cooke (1891 b) 92 ; Sacc. Syll. Fung. XI : 100 ; Doidge & Bottomley (1931) 68.
on **Acacia Karroo** Hayne, Fountains Valley, *Howlett*, 23720.
Acacia mollissima Willd., Impolweni, *Rump 173*, 28562.
Celtis Kraussiana Bernh., Katberg Main Forest, *Keet*, 15641.
Citrus sinensis Osbeck, Hennops River, *Pullen*, 1873.

Gymnosporia peduncularis L. Bolus, Knysna, *D.F.O.*, 9801.
on rotten or dead wood, foot of Table Mt., *Eaton* ; Westfalia, *Doidge*, 1693 ; Hennops River, *Pullen*, 2114 ; Durban, 6917 ; Durban, *Moonsamy* (v. d. Byl 294) 31672 ; Fountains Valley, *Bottomley*, 14651, *v. d. Byl 55*, 31543 ; Debbe's Ravine, *Mogg*, 24874 ; Ngoye, *Haygarth*, 15608 ; Hopevale, *Morgan & Doidge*, 27705 ; Knysna, *Duthie 275*, 31448.

Daedalea fuscospora Lloyd

Lloyd (1922) 1122 ; van der Byl (1922 c) 178, (1924 b) 308 ; Stevenson & Cash (1936) 76.
on old wood, Victoria Falls, *v. d. Byl 490*, Type (Lloyd Myc. Coll. 55722).

Daedalea Hobbsii v. d. Byl

van der Byl (1921 f) 287, (1922 c) 178 ; Nel (1942) 72.
on **Acacia** sp., Louis Trichardt, *Hean*, 28875.
on old log, Howick. *Hobbs*, Type (v. d. Byl 575) 13943 ; Winters Kloof, *Rump 174*, 28563 ; ? Fountains Valley, *Louwrens*, 27564.

Daedalea ligneotexta v. d. Byl

van der Byl (1924 b) 308, (1925 b) 194 ; Nel (1942) 72.
on old wood, Knysna, *v. d. Byl 1356*, Type.

Daedalea MacOwani Kalchbr. ex Thuem.

von Thuemen (1876 b) 362 ; Sacc. Syll. Fung. VI : 373.
on **Celtis Kraussiana** Bernh. and other trees, on banks of Klein Vischrivier, *MacOwan 1066*, Type, 21950.

Daedalea ochracea Kalchbr. ex Thuem.

von Thuemen (1878 a) 354 ; Sacc. Syll. Fung. VI : 372.
on trunks of trees, Somerset East, *MacOwan 1065*, Type (Thuem. Myc. Univ. 1205) Kew.

Daedalea quercina (Linn. ex Fr.) Fr.

MacOwan (1895) 331 ; van der Byl (1924 b) 309 ; Nel (1942) 72.
on **Quercus** sp., Cape, *MacOwan* ; Kirstenbosch, *Bottomley*, 24831, Kew ; Cape Peninsula, *E. L. Stephens 493*, 34551.
on dead wood, Kirstenbosch, *Duthie* (v. d. Byl 1397), *Pocock* (v. d. Byl 2521), *L. Bolus* (v. d. Byl 1674) ; East London, *v. d. Byl 2742*, Kew ; Stellenbosch, *Duthie 190*, 31394.

Daedalea rhodesica v. d. Byl

van der By[illegible] 67 ; Hopkins (1938 a) 111 ; Nel (1942) 72.
on old wood, Victoria Falls, *v. d. Byl 790*.

Daedalea stereoides Fr.

Lloyd (1924) 1318, 1274 ; J. Phillips (1931) 160.
on **Olea laurifolia** Lam., on dead wood, Deepwalls, *J. Phillips*, 18155.

Daedalea unicolor (Bull. ex Fr.) Fr.

on **Diervilla florida** Sieb. & Zucc., Nels Rust, *Fuller*, 5632.
on dead wood, Ceres, *H. H. W. Pearson*.

Favolus agariceus (Berk.) Lév.

Montagne (1847) 172.
in bush, Koratra, *Drège 9431 b.*

Favolus brasiliensis Fr.

van der Byl (1921 f) 292, (1922 c) 178 ; Nel (1942) 72.
on dead logs, Durban, *v. d. Byl 663*, 14033 and *v. d. Byl 73*, *783* ; Elim, *Watson*, 25356, 25881, 26328 ; Northern Transvaal, *Curson*, 30759.

Favolus dermoporus (Pers.) Torrend ex Lloyd

Lloyd (1915 b) 554 ; van der Byl (1922 c) 178 ; Stevenson & Cash (1936) 78 ; Nel (1942) 72.
on dead stump, Durban, *v. d. Byl 610*, *653*, (Lloyd Myc. Coll. 19225) 31994.

Favolus Friesii Berk. & Curt.

Lloyd (1920) 952 ; Nel (1942) 72.
on dead log, Stella Bush, *v. d. Byl 813* ; Durban, *v. d. Byl 585*, 31978.

Favolus Jacobaeus Sacc. & Berl.

Torrend (1905) 220 ; van der Byl (1922 c) 178 ; Nel (1942) 73.
on dead wood, Durban, *v. d. Byl 230*, *231* ; Moçambique (Torrend).

Favolus megaloporus (Mont.) Bres.

van der Byl (1921 f) 291, (1922 c) 178.
Durban, *v. d. Byl.*

Favolus moluccensis Mont.

Montagne (1847) 173.
" on fallen trees, near river mouth, Omsamwubo ", *Drège 4111*, *9420.*

Favolus natalensis Fr.

Fries (1848) 18 ; Sacc. Syll. Fung. VI : 402 ; Killermann (1928) 200.
on trunks of trees, Natal, *Wahlberg*, Type.

Favolus spathulatus (Jungh.) Bres.

Lloyd (1920) 952 ; van der Byl (1922 c) 178 ; Nel (1942) 73.
Favolus multiplex Lév., Nel (1942) 73.
Polyporus vibecinus Fries (1848) 6 ; Sacc. Syll. Fung. VI : 89.
Polyporus vibecinus var. *antilopum* Kalchbrenner (1881) 53 ; Sacc. Syll. Fung. VI : 89.
on **Acacia mollissima** Willd., Natal, *Pole Evans*, 8944.
on dead wood, Natal, *Medley Wood 99*, *121*, *123*, *212*, 11132, 22073, Kew ; Natal, *Wahlberg*; Cape, Kew ; Knysna, *v. d. Byl 2255*, Kew ; Kentani, *Pegler 1271*, 8417.

Favolus tesselatus Mont.

P. Hennings (1892) 349; Lloyd (1920) 952 : van der Byl (1922 c) 178 ; Nel (1942) 73.
on decaying trunks in forest, Tugela River (Hennings) ; without locality, *v. d. Byl 232.*

Fomes albomarginatus (Lév.) Cooke

Fomes kermes (Berk. & Br.) Cooke in Herb. T.R.L.
on underground mine timbers, Randfontein Estates (T.R.L. 109).

Fomes annosus (Fr.) Gillet

Doidge & Bottomley (1931) 23.
on **Eucalyptus** sp., on dead wood, Maritzburg, *J. M. Sim*, 8832.
Prunus persica Sieb. & Zucc., Maritzburg, *J. M. Sim*, 8801.
Quercus sp., on living tree, Maritzburg, *J. M. Sim*, 8834.
on wood of tree undet., Schwarzwald Forest, *v. d. Byl 157*, 31595 ; Buxton, *v. d. Byl 178*, 31605.

Fomes badius (Berk.) Cooke

Lloyd (1915 a) L. 60 : 3, (1920) 952 ; Wakefield (1936) 43.
on **Eugenia Zeyheri** Harv., living wood, Notinsele Forest, *D.F.O.*, 9132.
Salix sp., dead stump, Groenkloof, 8872.
on tree undet., Weenen, *Hφeg 147* ; Komatipoort, *Roberts*, 8940 ; Schwarzwald Forest, *Keet* (v. d. Byl 29) 31531 ; Nelspruit, *A. Roberts* (v. d. Byl 30) 31532 ; Fuller's Forest, 32031.

Fomes Caryophylli (Rac.) Bres.

Lloyd (1915 a) L. 60 : 3, (1916 d) L. 62 : 1, (1917 a) L. 66, 12, (1924) 1318 ; Nel (1942) 73.
on **Curtisea faginea** Ait., on living tree, Knysna, *D.F.O.*, 10104, *Keet* (v. d. Byl 657), 31881.
Rhus viminalis Vahl, Schwarzwald Forest, *Keet*, 11262, *v. d. Byl 128*, 31578.
Scolopia Mundtii Warb., Schwarzwald Forest, *v. d. Byl 86, 283*, 11260, 15600.
Royena lucida Linn., living tree, Wolfridge, *v. d. Byl 63*, 31546.
on dead wood, Bluff, Durban, *v. d. Byl 448*, 15549 ; Woodbush, *v. d. Byl 1479* ; Umgeni Bush, *Rump 349*, 30157.

Fomes conchatus (Pers. ex Fr.) Gillet

van der Byl (1921 f) 275, (1922 c) 179 ; Wakefield (1936) 43 ; Nel (1942) 73.
on **Melia Azedarach** Linn., Maritzburg, *T. R. Sim*, 11266, *v. d. Byl 276, 315*.
on dead trunks and logs, Howick, *Hobbs* ; Durban, *Leslie* (v. d. Byl 362) 31703 ; Maritzburg, *v. d. Byl 3* ; Town Bush, *Rump*, 27555 ; Stella Bush, *v. d. Byl 330*, 31688 ; Stellenbosch, *Duthie* (v. d. Byl 334) 31690 ; Victoria Falls, *Hφeg 140*, Kew ; Rhodesia, *Duthie 162*, 31378.

Fomes connatus (Fr.) Gillet

van der Byl (1921 f) 273, (1922 c) 179 ; Doidge & Bottomley (1931) 68 ; Nel (1942) 73.
on **Celtis Kraussiana** Bernh., Harald Forest, *Keet*, 11270.
Curtisea faginea Ait., on live wood, Eastern Cape, *Keet* (v. d. Byl 172) 31601.
Podocarpus elongatus L'Herit., Amanzamnyana Forest, *D.F.O.*, 11548.
Podocarpus sp., Hogsback, *v. d. Byl 127*, 15622.
Scolopia Mundtii Warb., Tyititi Forest, *Keet*, 9179 ; Harald Forest, *Keet* (v. d. Byl 194) 31613.
on dead wood, Hogsback, *v. d. Byl*, 11265 ; Eastern Cape, *v. d. Byl 7* ; Kirstenbosch, *L. Bolus*, 1679.
on mine timber, Jubilee Mine, Pilgrim's Rest, *Brown* (T.R.L. 40, 41) 28768, 28769.

Fomes Dialerii Bres. & Torrend

Torrend (1905) 218 ; Sacc. Syll. Fung. XXI : 293.
on trees, Meruru, *L. G. Dialer*, Type.

Fomes durissimus Lloyd

Lloyd (1920) 952, (1923) 1186 ; Stevenson & Cash (1936) 82 ; Nel (1942) 82.
on wood, Victoria Falls, *v. d. Byl 787* (Lloyd Myc. Coll. 37711).

Fomes endotheius (Berk.) Cooke

Lloyd (1917 a) L. 67 : 2.
without locality, *v. d. Byl.*

Fomes fastuosus (Lév.) Cooke

Hopkins (1938 a) 111.
on living tree, Umtali, *Eyles 7104.*

Fomes focalis (Kalchbr.) Cooke

Cooke (1885 c) 19 ; Sacc. Syll. Fung. VI : 187.
Polyporus focalis Kalchbrenner (1881) 54.
near Murraysburg, *Tyson* (comm. MacOwan).

Fomes fomentarius (Linn. ex Fr.) Kickx.

Montagne (1847) 168.
" Boschjemanrivier ", *Drège 9437 e.*

Fomes fulvus (Fr.) Gillet

on trunks of trees, Verulam, *Medley Wood 427*, Kew ; Boschberg, *MacOwan 1082*, 34430.

Fomes geotropus Cooke

van der Byl (1921 f) 274, (1922 c) 179 ; J. Phillips (1924) 289, (1931) 159 ; Eyles (1926) 644 ; Doidge & Bottomley (1931) 58 ; Hopkins (1938 a) 112 ; Nel (1942) 74.

on **Apodytes dimidiata** E. Mey., Knysna, *J. Phillips*, 18028.
Brachystegia Randii Bak. f., on root, Salisbury, *Eyles 1749*, 15657.
Ocotea bullata E. Mey., on living tree, Knysna, *Keet*, 10105, *J. Phillips*, 18157.
Ocotea sp., on living tree, Melsetter, *Swynnerton*, 12801.
Podocarpus latifolius R.Br., on living tree, Nqadu Forest, *D.F.O.*, 14201, *v. d. Vyver*, 10135 ; Knysna, *J. Phillips.*
Podocarpus sp., Balgowan, *Rump 473*, 28800 ; Umtata, *v. d. Byl 621*, 31861.
Virgilia oroboides (Berg.) Salter, Knysna, *v. d. Byl 373.*
on dead wood, Deepwalls, *Bottomley*, 30740 ; Marwaqa Forest, *Morgan & Doidge*, 30853 ; Harding, *v. d. Byl 664* ; Knysna, *v. d. Byl 1390* ; without locality, *G. Phillips*, 20605 ; Xumeni Forest, *Doidge*, 33241.

Fomes glaucoporus Lloyd

Lloyd (1916 a) 2 ; Stevenson & Cash (1936) 82 ; Nel (1942) 74.
on **Olea africana** Mill., living tree, without locality, *v. d. Byl 153*, 31592.
Podocarpus latifolius R. Br., Harald Forest, *Keet*, 11272, 15595.

Ptaeroxylon obliquum (Thunb.) Radlk., Harald Forest, *Keet*, 15599.
on dead wood, Town Bush Valley, *Rump*, 27649 ; eastern Cape, *v. d. Byl 287* ; without locality, *v. d. Byl* (Lloyd Myc. Coll. 19545-9) ; Auckland Forest, *v. d. Byl 84*, 31554 ; Bulwer, *Rump*, 33180 ; Qudeni Forest, *Weintroub & Simpson* (T.R.L. 1676) 33924.

Fomes hemileucus Berk. & Curt.

Cheesman (1909) 410.
Victoria Falls, nr. Leaping Cascade, Victoria Falls, *Cheesman*.

Fomes hornodermus (Mont.) Cooke

van der Byl (1921 f) 274, (1922 c) 179 ; Eyles (1926) 644 ; Doidge & Bottomley (1931) 58 ; Wakefield (1936) 43 ; J. Phillips (1931) 159 ; Nel (1942) 74.
on **Brachystegia Randii** Bak. f., Rhodesia, *Eyles 1750*, 15655.
Ocotea bullata E. Mey., Lusikisiki, *D.F.O.*, 6936.
on dead wood of tree undet., Eshowe, *Hyslop* (v. d. Byl 437) 31748 ; Melsetter, *Swynnerton*, 12803 ; Eshowe, *Hφeg 173*.

Fomes igniarius (Linn. ex Fr.) Kickx.

Polyporus igniarius Linn. ex Fr., Kalchbrenner (1881) 54.
Somerset East, *MacOwan* (S.A.M. 34436).

Fomes lividus (Kalchbr.) Cooke

on **Acacia mollissima** Willd., Town Hill, Maritzburg, *Rump*, 27624 ; Bot. Gardens, Maritzburg, *Rump 376*, 30187.
Eucalyptus sp., Maritzburg, *Rump 159*, 28470, Kew ; Town Bush, *Rump 249*, 28284.
Melia Azedarach Linn., Maritzburg, *Rump*, 27640, Kew.
on wood of indigenous trees, Nkandhla Forest, *Rump 370 b*, 30178 ; Eshowe, *Rump 366*, 30174 ; Town Bush Valley, *Rump 189*, 28570 ; Town Bush, *Rump 358*, 30164 ; Rooikoppies Plantation, *Reed* (T.R.L. 205) 28969.

Fomes McGregori Bres.

van der Byl (1921 f) 277, (1922 c) 179.
on **Elytropappus rhinocerotis** Less., Grahamstown, *Pole Evans*, 12318.
Olea laurifolia Lam., Katberg Main Forest, 15643.
Rhus viminalis Vahl., eastern Cape, *Keet*.
Scolopia Mundtii Warb., eastern Cape, *Keet*.
Trichocladus sp., eastern Cape, *Keet*.
on wood of indigenous trees, Town Bush, *Rump 308 a*, 28704.

Fomes melanoporus (Mont.) Cooke

van der Byl (1921 f) 274, (1922 c) 179 ; Nel (1942) 74.
on old logs, Schroeders, *v. d. Byl 214, 465*, 14039, 31763 ; Greytown, *v. d. Byl 265* ; Umhlali, *Rump 391*, 30193 ; George, *V. A. Putterill*, 15480 ; Stella Bush, *Moonsamy* (v. d. Byl 473) 31767.

Fomes minutulus P. Henn.

on **Olea laurifolia** Lam., Lusikisiki, *D.F.O.*, 6941.
on wood, Maputa Exped., *Breijer*, 8358.

Fomes mundulus Wakef.

Wakefield (1936) 44.
on branches, Victoria Falls, *Hφeg 76*, Kew, Type.

Fomes Niaouli (Pat.) Lloyd

Lloyd (1920) 952 ; Nel (1942) 74 (as *F. maouli*).
on dead stump, Durban, *v. d. Byl 600*.

Fomes nubilis (Fr.) Cooke var. **albo-limbatus** Kalchbr.

Kalchbrenner (1881) 55 ; Sacc. Syll. Fung. VI : 199.
Bazuja, Kaffraria, *Baur*.

Fomes pectinatus (Klotzsch) Gillet.

van der Byl (1921 f) 276, (1922 c) 179 ; Nel (1942) 74.
on **Acacia melanoxylon** R. Br., eastern Cape, *v. d. Byl*.
Kiggelaria africana Linn., eastern Cape, *v. d. Byl*.
Rhus viminalis Vahl, Schwarzwald Forest, *Keet*, 11267.
on wood, Nottingham road, *v. d. Byl 530* ; Hogsback, *v. d. Byl 186*, 31609.

Fomes pinicola (Sw. ex Fr.) Cooke

on ? **Cunonia capensis** Linn., Kirstenbosch, *Pole Evans*, 7364.

Fomes pseudosenex (Murr.) Sacc. & Trott.

Lloyd (1917 a) L. 65 : 2 ; Nel (1942) 74.
on wood, Bot. Gardens, Durban, *v. d. Byl 927*, *Moonsamy* (v. d. Byl 271) 31660.

Fomes rimosus (Berk.) Cooke

Lloyd (1915 c) 248 ; v. d. Byl (1918 b) 215, (1921 f) 276, (1922 c) 179, (1925 b) 194, (1926 c) 288 ; Doidge & Bottomley (1931) 31, 57 ; J. Phillips (1931) 159 ; Watt & Breijer-Brandwyk (1932) 215 ; Nel (1942) 75 ; Hopkins (1943) 186 ; Simpson & Talbot (1946) 134.
on **Acacia Karroo** Hayne, Onderstepoort, *Mogg*, 23713 ; Zwartruggens, *Sutton*, 30523; Vals Rivier, Kroonstad, *Pont*, 24936.
Burkea africana Hk., Northern Rhodesia, *Watt*, 21101.
Cassine croceum O. Ktze., Knysna, *J. Phillips* (v. d. Byl 2087), *Legat*, (v. d. Byl 31) 31533.
Cassine sp., Gxulu Forest, *v. d. Byl*, 31585.
Curtisea faginea Ait., Kologha Forest, *D.F.O.*, 7792 ; on living tree, Harald Forest, *Keet*, 31553 ; Schwarzwald, *v. d. Byl*, 31591.
Dombeya sp., Hogsback, 32028.
Khaya nyassicae Stapf, Mt. Silinda, *Kelly Edwards*, 33132.
Kiggelaria africana Linn., eastern Cape, *Keet* ; Hogsback, *v. d. Byl 130*, 31580.
Melia Azedarach Linn., Maritzburg, *J. M. Sim*, 8800.
Milletia caffra Meisn., Lusikisiki, *D.F.O.*, 6939.
Olea africana Mill., eastern Cape, *Keet* ; Fuller's Forest, *v. d. Byl 143*, 31588.
Olea laurifolia Lam., eastern Cape, *Keet*.
Olea sp., dead stump, Qudeni Forest, *Simpson & Talbot*, 34983.
Pleurostylia capensis Oliv., on living tree, Harald Forest, *Keet*, 31551.
Ptaeroxylon obliquum (Thunb.) Radlk., Gxulu Forest, *Keet* (v. d. Byl 632 a), 31561 ; St. John's Patrol, *D.F.O.*, 9418 ; eastern Cape, *v. d. Byl*, 13060.
Rhus viminalis Vahl, dry tree, Katberg Main Forest, *v. d. Byl*, 11259, 31597 ; on living tree, Schwarzwald Forest, *v. d. Byl 511*, *632*, 31539 ; on dead tree, Buxton, *v. d. Byl*, 31574 ; living tree, Fuller's Forest, *v. d. Byl*, 31621.

Rhus sp., Gxulu Forest, *Keet*, 9111 ; Somerset East, *Grobbelaar* (v. d. Byl 2447).
Schotia latifolia Jacq., on living tree, Gxulu Forest, *Keet* (v. d. Byl 32) 31536, 31566, 31575.
Scolopia Mundtii Warb., Hogsback, *v. d. Byl 307*, 11264 ; eastern Cape, *Keet* (v. d. Byl 925).
Syzygium Gerrardi (Harv.) Hochst., Woodbush, *Doidge*, 1726.
Virgilia oroboides (Berg.) Salter, without locality, *Brain* (v. d. Byl 393).
Xymalos monospora Baill., Auckland Forest, *Keet*, 31584 ; Qudeni Forest, *Weintroub & Simpson* (T.R.L. 674) 33280.
on trees undet., Newlands, *E. P. Phillips* (S.A. M. 9557) ; Saltpan, Pretoria Distr., *A. Roberts*, 1933, *Pienaar*, 1954 ; Woodbush, *Doidge*, 1336, Kew, *N. Roberts*, 5602 ; Pretoria, *Fischer*, 28653 ; Roodekop, *M. R. H. Thomson*, 14843 ; Malelane, *Hall*, 9751 ; Hluhluwe Game Reserve, *Rump 554*, 34062 ; Nkandhla Forest, *Rump 367*, 30175 ; nr. Mont-aux-Sources, *Doidge*, 23170 ; Buccleuch, *Doidge*, 11546 ; Town Bush *Rump 635*, 34066 ; Mtabanana, *Curson*, 17274 ; Alexandria Forest, *Doidge*, 23351; Newlands, *Péringuey*, 9185 ; East London, *Mogg*, 17818 ; Stutterheim, *Sr. de Victoria*, 25875 ; Karkloof, *Platt*, 32006 ; Howick, *Hobbs* ; Pondoland, *v. d. Byl* ; Cape Town, *Saxton* ; Auckland Forest, *v. d. Byl 161*, 31596 ; Bulwer, *Lansdell*, 31611 ; Durban, *Moonsamy*, 31696, 31819 ; Qudeni Forest (T.R.L. 1675) ; Victoria Falls, *v. d. Byl 510* ; Schroeders, *v. d. Byl*, 31764 ; Pirie Forest, *Archibald*, 34201.

Fomes Robinsoniae (Murr.) Sacc. & Trott.

van der Byl (1921 f) 275, (1925 b) 194, (1922 c) 179 ; J. Phillips (1931) 159 ; Stevenson & Cash (1936) 87, as F. Robinsoniae (Murr.) Lloyd ex v. d. Byl; Nel (1942) 75 ; Simpson & Talbot (1946) 134.
on **Ekebergia capensis** Sparm., Knysna, *Keet* (v. d. Byl 656) 31880.
Gonioma Camassi (E. & Z.) Mey., Knysna, *J. Phillips*.
Gymnosporia peduncularis L. Bolus, Knysna, *Keet* (v. d. Byl 746) 10106.
Olea sp., living tree, Qudeni Forest, *Simpson & Talbot*, 34981.
Platylophus trifoliatus Don., Harkerville Forest, Knysna, *J. Phillips* (v. d. Byl 2385).
Xymalos monospora Baill., Horseshoe (v. d. Byl 6) 11263.
on wood of indigenous trees, Town Bush, *Rump 254*, 28486 ; Knysna, *v. d. Byl 713*, 11268 ; Durban, *Leslie* (v. d. Byl 765).

Fomes robustus Karst.

van der Byl (1921 f) 275, (1922 c) 179 ; Nel (1942) 109.
on **Olea laurifolia** Lam., dead wood, Flo Forest, *Keet*, 15572 ; Horseshoe, *v. d. Byl*, 31582.
Xymalos monospora Baill., Katberg Main Forest, *v. d. Byl 163, 270*, 11269.
on dead wood, Bulwer, *Lansdell* ; without locality, *v. d. Byl 1070* ; Table Mt., Natal, *Rump 619*, 34367.

Fomes salicinus (Pers. ex Fr.) Kickx.

von Thuemen (1876 b) 362 ; Sacc. Syll. Fung. VI : 184.
on **Salix** sp., trunks, nr. Somerset East, *MacOwan*.

Fomes senex (Nees & Mont.) Cooke

Cheesman (1909) 410 ; Lloyd (1915 b) 259, 260 ; van der Byl (1921 f) 277, (1922 c) 179 ; Wakefield (1936) 43 ; Nel (1942) 75.
on **Rhus viminalis** Vahl, Amanzimtoti, *Lansdell* (v. d. Byl 314) 31679.
Syzygium Gerrardi (Harv.) Hochst., on living tree, Woodbush, *Doidge*, 1724 ; Ngome Forest, *v. d. Byl 386*, 31721.

on trees undet., Livingstone Is., Victoria Falls, *Cheesman* ; nr. Durban, *Burton*, 9799 ; Ginginhlovu, *Haygarth*, 15563 ; Maritzburg, *Reynolds*, 15547, *v. d. Byl 271, 560* ; Barberton, *Thorncroft* ; Durban, *Leslie* (v. d. Byl 347) 31699 ; Ngoye Forest, *Haygarth* (v. d. Byl 260) 31654 ; Eshowe, *Hφeg 138*, and *Hyslop* (v. d. Byl 433) 31754 ; Duivelskloof, *Weintroub* (T.R.L. 387).; Mariepskop, *Scott*, 34074.
on underground mine timber, New Amianthus Mine, *Weintroub* (T.R.L. 135).

Fomes torulosus (Pers.) Lloyd

Fomes fusco-purpureus Boud., Torrend (1905) 219.
Moçambique (Torrend).

Fomes yucatanensis (Murr.) Sacc.

van der Byl (1921 f) 278, (1922 b) 179, (1925 b) 194 ; Doidge & Bottomley (1931) 10 ; J. Phillips (1931) 159 ; Nel (1942) 75.
on **Curtisia faginea** Ait., Knysna, *J. Phillips* (v. d. Byl 2086).
Olea africana Mill., Fuller's Forest, 15593.
Olea sp., living tree, eastern Cape, *Keet*.
Quercus sp., Maritzburg, *Rump 681*, 35326.
Trema guineensis (Schum.) Ficalho, living tree, Durban, *v. d. Byl*.
on tree undet., Pretoria, *Roberts* ; Stella Bush, *v. d. Byl 348*, 11271, 31700 ; Durban, *v. d. Byl 313, 926*.

Fomes zambesianus (Lloyd) Sacc.

Sacc. Syll. Fung. XXIII : 390.
Polyporus zambesianus Lloyd (1912 a) 128, (1924) 1290 ; Stevenson & Cash (1936) 126 ; Nel (1942) 85.
on trunks, near the river Zambesi, *Buchanan*, Kew ; Salisbury, *Eyles* (Stell. 478 ; v. d. Byl 2400).

Fomes zuluensis Wakef.

Wakefield & Talbot (1948) 948.
on wood, Nkandhla Forest, Zululand, *Rump 374*, 30186.

Ganoderma africanum Lloyd

Lloyd (1912 a) 103 ; Stevenson & Cash (1936) 96.
as *Polyporus umbraculum* Fr., Kalchbrenner (1881) 53.
as *Fomes umbraculum* (Fr.) Sacc. Syll. Fung. VI : 159.
on roots of various trees, Boschberg, *MacOwan 1079* (Thuem. Myc. Univ. 708 ; S.A.M. 34414) Kew.
Thuem. Myc. Univ. 708 was cited by Bresadola (Icon. Myc. XXI, 1932: 1009) as being his species *Ganoderma fulvellum*, but his species is not stipitate.

Ganoderma Alluaudi Pat. & Har.

on wood, East London, *Latimer* (per A. E. Peck) Kew.

Ganoderma applanatum (Pers.) Pat.

Wakefield (1936) 45 ; Brown (1936) 388 ; Simpson & Talbot (1946) 134.
Polyporus australis Fr., Montagne (1847) 168 ; Kalchbrenner (1881) 54.
Polyporus gibbosus (Blume) Nees, van der Byl (1917) 490 ; Lloyd (1915 a) L. 55 : 3.
Fomes applanatus Karst., van der Byl (1917) 485, (1921 f) 278, (1922 c) 178 ; Doidge & Bottomley (1931) 10, 31, 58, 68 ; J. Phillips (1931) 159 ; Hopkins (1938 a) 111.

Ganoderma australe (Fr.) Pat., P. Hennings (1892) 342 ; Doidge & Bottomley (1931) 31.
Fomes annularis Lloyd (1915 c) 268 ; van der Byl (1922 c) 178 ; Stevenson & Cash (1936) 81 ; Nel (1942) 73.
Fomes australis Fr., Pole Evans (1911 b) 263.
Fomes leucophaeus (Mont.) Cooke, Lloyd (1911 b) L. 35 : 3, (1914) L. 49 : 6, (1922) 1124 ; van der Byl (1922 c) 178.
Fomes vegetus Cooke, van der Byl (1922 c) 178.

on dead and living wood of trees.

on **Acacia decurrens** Willd., Harden Heights and Cramond, *Pole Evans*, 1326, Kew ; Keiskama Hoek, *v. d. Byl 134*, 31583.
Acacia melanoxylon R. Br., Tokai, *D.F.O.*, 19851, 19863.
Acacia mollissima Willd., Cramond and Harden Heights, *Pole Evans*, 1365, Kew ; eastern Cape, *Keet* ; Durban, *v. d. Byl* ; Hopevale, *T. Morgan*, 33073 ; Boughton, *Ledeboer*, 34929.
Albizzia gummifera (Gmel.) G. A. Sm., Durban, *v. d. Byl.*
Celtis Kraussiana Bernh., Branders High Forest, *v. d. Byl*, 11261 ; Katberg Main Forest, *Keet* (v. d. Byl 161) 31598 ; Knysna, *J. Phillips.*
Citrus sp., Hennops River, *Pullen*, 2117.
Cocos nucifera Linn., Quelimane, *Fuller*, 23362.
Cryptocarya sp., Notinsele Forest, *D.F.O.*, 9135.
Cunonia capensis Linn., Cape Town, *Pole Evans.*
Curtisia faginea Ait., Harald Forest, *v. d. Byl*, 11256 ; Katberg Main Forest, *v. d. Byl 112*, 31569 ; Knysna, *J. Phillips* (v. d. Byl 2089).
Eucalyptus sp., stump, Driepoort Farm, Palmford (T.R.L. 932) ; underground mine timbers, Pilgrim's Rest, *Lurie*, 28829.
Melia Azedarach Linn., Maritzburg, *T. R. Sim* (v. d. Byl 222) 31634.
Ocotea bullata E. Mey., Hankey Forest, *Brunt*, 15049 ; Deepwalls, *J. Phillips*, 18047, *Young* and *Hφeg 1.*
Olea foveolata E. Mey., Manina Forest, *W. J. v. d. Merwe*, 9110 ; Notinsele Forest, *D.F.O.*, 9131.
Olea laurifolia Lam., Knysna, *J. Phillips* (v. d. Byl 2089) 17815, 18048 ; Lusikisiki, *D.F.O.*, 6940 ; Schwarzwald Forest, *Keet*, 31599, 31606 ; Kologha Forest, Stutterheim ; Pondoland ; Katberg Main Forest, *v. d. Byl*, 31562 ; Baziya Forest, *v. d. Byl 183*, 31607 ; Horseshoe, *v. d. Byl*, 31619 ; Qudeni Forest (T.R.L. 1673), *Simpson & Talbot*, 34978.
Podocarpus sp., Hlatikulu Forest, *v. d. Byl*, 15645.
Pterocelastrus tricuspidatus Sond., Knysna, *J. Phillips* (v. d. Byl 2088), *Duthie* ; Maritzburg, *v. d. Byl 299.*
Pyrus communis Linn., Transvaal, *v. d. Byl.*
Quercus sp., Maritzburg, *Pole Evans*, 1366.
Rhus viminalis Vahl., Katberg Main Forest, *v. d. Byl*, 15597 ; Buxton, *v. d. Byl*, 31581.
Salix sp., Rosetta, *Rump 512*, 33249 ; Parys (T.R.L. 1818).
Scolopia Mundtii Warb., Bambanyoke Forest, *D.F.O.*, 9430 ; Mount Frere, *Dawson*, 9725.
Trichocladus sp., without locality, *v. d. Byl.*

on wood of trees undet., Queenstown, *Baur* (Mac Owen 881) ; "between Key and Basche", *Drège 9436* ; Intsubana, Pondoland, *Bachmann* ; Cape, *Becker* ; Cape Town, *Saxton* (Lloyd Myc. Coll. 42142) ; Cape Peninsula, *E. L. Stephens*, *473*, 34550 ; Knysna, *Duthie 17*, *298*, 31467 ; Knysna, *Rump 488*, 30833 ; Deepwalls, *Hφeg 176*, *Bottomley*, 30732 ; George, *V. A. Putterill*, 15492 ; East London, *Munro*, 18121 ; Tendenko Forest, *v. d. Vyver* (v. d. Byl 193) 31612 ; Grahamstown, *Archibald*, 33381 ; Maritzburg, *Rump*, 33944 ; York, *Rump 500* 32171 ; Scottburgh, *Rump 535 b*, 33904 ; Umgeni Bush, Durban, *Rump 649*, 34068. Durban, *Howlett*, 33430, *v. d. Byl 5* (Lloyd Myc. Coll. 42137, 42141), *Moonsamy* (v. d.

Byl 272) 31661 ; Tugela, *Moonsamy*, 31638 ; Xumeni Forest, *Doidge*, 28938, 33068, 33075, 33242 ; Impolweni, *Rump* (Hφeg 7) New Germany, *Moonsamy* (v. d. Byl 272) 31855 ; Bulwer, *Rump 24*, 27601 ; Doonside, *Punt*, 20379 ; nr. Mont aux Sources, *Doidge*, 23711 ; Nkandhla Forest, *Rump 370 a*, 30177 ; Solheim M.S., Eshowe, *Hφeg 164* ; Eshowe, *Ridgeway*, 31627, *v. d. Byl*, 31673, 31727 ; Ngoye, *Haygarth*, 31652 ; Zululand, *v. d. Byl 316* ; Ginginhlovu, *Haygarth*, 15562 ; Caledon River, Basutoland (T.R.L. 454) ; Transvaal, *Duthie* (Lloyd Myc. Coll. 25949) Johannesburg, *Naudé*, 23356 ; Woodbush, *Doidge*, 1703, *Wager*, 23233 ; Entabeni Forest (T.R.L. 243) ; Melsetter, *Swynnerton*, 12802 ; Mt. Silinda Forest (Rh. 4317) 33121.

on underground mine timbers, Crown Mines, *Brown* (T.R.L. 30) ; Robinson Deep (T.R.L. 33).

Var. **laccatum** (Kalchbr.) Rea

on wood, Durban, *v. d. Byl*, 15615.

Ganoderma chilense (Fr.) Pat.

Fomes chilensis (Fr.) Cooke, Sacc. Syll. Fung. VI : 176.
Polyporus chilensis Fr., von Thuemen (1877 a) 408.

on trunks, Boschberg, *MacOwan 122* (Thuem. Myc. Univ. 2204 ; Roum. Fung. Sel. Exsicc ; S.A.M. 34412) 20926, Kew.

Ganoderma colossum (Fr.) Bres.

Polyporus colossus Fr., v. d. Byl (1921 f) 265, (1922 c) 180 ; Doidge & Bottomley (1931) 68.

on **Celtis Kraussiana** Bernh., Wonderboom Poort, *Mogg*, 23714, 23715.
amongst grass, Magaliesberg, *Fouché*, 17052.
on wood of trees undet., Swaziland, *Kretzschmar*, 14204 ; Gezina, *N. Roberts*, 2043 ; Park Rynie, *Rump 451, 488*, 30832, 32379.

Ganoderma Curtisii (Berk.) Murrill.

Fomes Curtisii Berk., Lloyd (1922) 1124, 1128.

on trunks, Lobatsi, *Breach* (Duthie 250, 285) 31431, 31457 ; Fountains Valley, *v. d. Byl*, 9109 ; Tugela, *Moonsamy* (v. d. Byl 230) 31637 ; Durban, *Moonsamy* (v. d. Byl 242) 31645.

Ganoderma Emini P. Henn.

Hopkins (1938 a) 112 ; Simpson & Talbot (1946) 134.
? *Polyporus reticulatosporus* van der Byl (1927) 225 ; Hopkins (1938 a) 113 ; Nel (1942) 82.

on **Olea laurifolia** Lam., roots, Qudeni Forest, *Simpson & Talbot*, 34979.
on ground, Salisbury, *Eyles 2519*, 14853 ; Wild Life Reserve, Burman Drive, Durban, *Salter*, 33553.
on dead wood, Salisbury, *Eyles 4121* (Stell. 212 ; v. d. Byl 2419 ; Rh. 2069).

Ganoderma fulvellum Bres.

on **Olea laurifolia** Lam., live tree, Nqadu Forest, *D.F.O.*, 9690, *v. d. Vyver*, 31642.
Salix sp., Pretoria, *Cuff*, 15594.

Ganoderma lobatum (Schw.) Atk.

Polyporus reniformis Morgan, Lloyd (1914) L. 49 : 6.

without locality, *Janse*.

Ganoderma lucidum (Leyss. ex Fr.) Karst.

P. Hennings (1892) 340 ; Torrend (1905) 218, " f. *sessile* " ; Wakefield (1936) 45 ; Brown (1937) 388 ; Hopkins (1938 a) 112.

Polyporus lucidus Leyss. ex Fr., van der Byl (1916 c) 506, (1921 f) 267, 293, (1922 c) 181 ; Lloyd (1917 a) L. 65 : 3, 8 ; Doidge & Bottomley (1931) 14 ; J. Phillips (1931) 160 ; Nel (1942) 81.

Fomes lucidus Leyss. ex Fr., Schultze (1907) 705.

Polyporus capensis Lloyd (1916 d) L. 63 : 10 ; Stevenson & Cash (1936) 100 ; Doidge & Bottomley (1931) 24.

on **Acacia Karroo** Hayne, Fountains Valley, *Bottomley*, 29939 ; Hekpoort, *J. Phillips*, 29967.

Acacia mollissima Willd., Garstfontein, *Bottomley*, 30701 ; Natal midlands, *Sim*.

Acacia sp., Pretoria, 22007, *Sellschop* (v. d. Byl 22, 184) 31528, 31608.

Albizzia amara Boiv., Durban, *v. d. Byl 912, 1062*, 15538, *Eyles* (v. d. Byl 1874 a).

Citrus sinensis Osbeck, Vissershoek, *Fouché*, 20420.

Citrus sp., Fort Beaufort, *Johnson*, 28864.

Combretum glomeruliflorum Sond., Wonderboom, *Reinecke*, 23712.

Combretum holosericeum Sond., Haakdoornfontein, *Duff*, 23219.

Copaifera Mopane Kirk, on mine props ? Matabeleland, *Duthie 164*.

Delonix regia Raf., Durban, *v. d. Byl*.

Ekebergia capensis Saprm., Manubie Forest, D.F.O., 28719.

Olea africana Mill., eastern Cape, *Keet*.

Olea laurifolia Lam., without locality, *v. d. Byl* ; timber in storage, Johannesburg (T.R.L. 1467).

Populus sp., Despatch, *Holland*, 14817.

Ptaeroxylon obliquum (Thunb.) Radlk., on dry wood, Gxulu Forest, *Keet*, 31538.

Quercus sp., Brooklyn, Pretoria, *Mogg*, 24923.

Rhus viminalis Vahl, Ifafa, *Lansdell*, 31683.

Salix sp., Vals Rivier, Kroonstad, *Pont*, 24937 ; Brits, *Sellschop*, 30526 ; Groenkloof, Pretoria, *Cuff*, 31529.

Scolopia Zeyheri (Szysz.) Nees, living tree, Gxulu Forest, *v. d. Byl*, 31538.

Zea Mays Linn., Mokeetsi, *Cooper Bros.*, 23696.

Zizyphus mucronata Willd., eastern Cape, *Keet*.

on trees undet., Intsubana, Pondoland, *Bachmann* ; Sevenfountains, Albany Distr., *E. du Toit*, 30279 ; Knysna, *Duthie 117*, 11277, 31499 ; de Kroon, *Fouché*, 13063 ; Hartebeestpoort, *Howlett*, 19854 ; Brooklyn, Pretoria, *Mogg*, 24923 ; Irene, *Pole Evans*, 30278 ; Pretoria, Wickens, 12249 ; Fountains Valley, *Louwrens*, 27563, *Cloete*, 27593, *Hean*, 30724, *Bottomley & Lansdell*, 28456 ; Wonderboom, *Fischer*, 28654 ; Pretoria Distr., *Schaefer*, 33941 ; Waterberg, *Grosskopf* (v. d. Byl 1078) ; Maid of the Mist Mine, Barberton, *A. T. Hall*, 9549 ; Fortuna Creek, Barberton, *Thorncroft*, 16992 ; Kaapmuiden, *Mogg*, 28783 ; Potgietersrust, *Grosskopf* (v. d. Byl 1680) ; Piesanghoek, *Watson*, 24922 ; Rhenosterhoek (T.R.L. 312) ; Hartebeestfontein Klerksdorp, *v. d. Merwe*, 32089 ; Krugersdorp, *J. Phillips*, 32090 ; Natal, *Medley Wood* (Lloyd Myc. Coll. 14445) ; Xumeni Forest, *Morgan & Doidge*, 28948, 33240 ; New Germany, *Moonsamy* (v. d. Byl 601) 31848 ; Umgeni Bush, *Rump 372*, 30181 ; Durban, *v. d. Byl*, 11279, *Moonsamy* (v. d. Byl 233 ; Lloyd Myc. Coll. 18413) 31640, 31662, 31682, 31821, 31822, 31832 ; Ifafa, *Lansdell* (v. d. Byl 319) ; Stamford Hill (T.R.L. 464) ; Scottburgh, *Rump 535 a*, 33903 ; Tugela, *Moonsamy*, 31639 ; Howick, *Hobbs* ; Eshowe, *Morrison*, 15571 ; Zululand, *Munro*, 14206 ; Mtabanana, *Curson*, 17273 ; Natal (T.R.L. 508) ; Port St. Johns, *Mogg*, 27334 ; Port Elizabeth, *K. M. Putterill*, 28525 ; Stellenbosch, *Duthie 117* (Lloyd Myc. Coll. 14443) ; Ngokong *Schultze* ; Umtali, *Eyles 7106*, Kew ; Zimbabwe, *Hφeg 8* ; Salisbury, *v. d. Byl 1874* ; without locality, *v. d. Byl*, 31644, *v. d. Byl 230* (Lloyd Myc. Coll. 14440), *v. d. Byl 214, 218, 244, 441* (Lloyd Myc. Coll. 14441, 14442, 18412, 18414), *Malcolm Wilson* (Lloyd Myc. Coll. 14444) ; Moçambique (Torrend).

on underground mine timbers, Crown Mines, *Lucas*, 19847, *Wood*, 17789 ; Princess Mine, Roodepoort, *Knight*, 14205 ; Rose Deep Mine, *Murray*, 20636 ; Robinson Deep Mine, *Lurie 5*, Kew ; Johannesburg, *Naudé*, 23353, *v. d. Byl*, 32019 ; White Rose Mine, S. Rhodesia (T.R.L. 505).

Ganoderma mastoporum (Lév.) Pat.

Wakefield (1936) 45.
Polyporus mastoporus Lév., van der Byl (1921 f) 267, (1922 c) 181.
Fomes mastoporus Lév., Nel (1942) 74.
on wood, Nelspruit, *Roberts*, 8878 ; Ngoye Forest, *Haygarth*, 15570 ; Zululand, *Haygarth*, 14029, *v. d. Byl 1058* ; Manubie Forest, *D.F.O.*, 28720 ; Umgeni Bush, *Rump 369*, 30176 ; Solheim M.S., Eshowe, *Hφeg 10*, Kew.

Ganoderma mollicarnosum (Lloyd) Sacc. & Trott.

Sacc. Syll. Fung. XXIII : 401.
Polyporus (*Ganodermus*) *mollicarnosus* Lloyd (1915 a) L. 60 : 11 ; Stevenson & Cash (1936) 111.
Polyporus mollicarnosus Lloyd, van der Byl (1921 f) 264, (1922 c) 181.
on trunks, Durban, *v. d. Byl*, Type (Lloyd Myc. Coll, 54304) 31544.

Ganoderma (**Polyporus nigrolucidus** Lloyd)

Polyporus nigrolucidus Lloyd (1920) 925 ; van der Byl (1921 f) 266, (1922 c) 181 ; Stevenson & Cash (1936) 113 ; Nel (1942) 81.
on ground, Durban, *Medley Wood & v. d. Byl*, 13941, *v. d. Byl 656, 665, 900* (Lloyd Myc. Coll. 22888) Type.

Ganoderma obokense Pat.

Torrend (1905) 218.
Moçambique (Torrend).

Ganoderma Oerstedii (Fr.) Bres.

Lloyd (1913 c) L. 47 : 3.
Knysna, *Duthie 22*, 31498, 31509.

Ganoderma oroflavum (Lloyd) Humphrey & Leus

Fomes oroflavus Lloyd, van der Byl (1917) 490, (1921 f) 278, (1922 c) 179 ; J. Phillips (1931) 159 ; Stevenson & Cash (1936) 84.
on **Curtisia faginea** Ait., Deepwalls, *J. Phillips*, 18153.
Podocarpus latifolius R. Br., Knysna, *Pienaar*, 2338.
" Not a good species : yellow pores may occur in dried material of various spp." (Humphrey) ; said to be a form of *G. applanatum*.

Ganoderma resinaceum Boud.

? as *Polyporus resinaceus*, Lloyd (1915 a) L. 60 : 3.
without locality, *Pole Evans*.

Gloeoporus conchoides Mont.

Montagne (1847) 173 ; Sacc. Syll. Fung. VI : 403 ; van der Byl (1922 a) 179 ; Hopkins (1938 a) 112.

Polyporus conchoides (Mont.) Lloyd, van der Byl (1921 f) 258 ; J. Phillips (1931) 160; Stevenson & Cash (1936) 101 ; Nel (1942) 78.
on **Podocarpus latifolius** R.Br., Deepwalls, *J. Phillips*, 18046.
on wood, in bush, Durban, *Drège 9425* ; Johannesburg, *Naudé*, 23355 ; Ngoye Forest, *Haygarth*, 14023 ; Kentani, *Pegler 2461*, 11526 ; Zululand, *v. d. Byl 512* ; Knysna, *v. d. Byl 718, 2262* ; Mufulisa, *Eyles 8350*, Kew ; Umtali, *Eyles 7105*, Kew ; Krantzkop, *Rump 654*, 34384.

Gloeoporus dichrous (Fr.) Bres.

Killermann (1928) 202.
Polyporus dichrous Fr., van der Byl (1921 f) 257, (1922 c) 180 ; Nel (1942) 79.
Podocarpus elongatus L'Herit., Harald Forest, *Keet* (v. d. Byl 509) 11274, 15607.
Rhus viminalis Vahl., eastern Cape, *v. d. Byl 173*, 31602.
on bark and wood of trees undet. ; Kirstenbosch, *Middlemost*, 24856 ; Potchefstroom, on *M. Gunn*, 30511 : nr. Mont-aux-Sources, *Doidge*, 23479 ; Hope Vale, *Doidge*, 27739 ; Xumeni Forest, *Morgan & Doidge*, 28924 ; Ginginhlovu, *Haygarth*, 15617 ; Ngoye Forest, *Haygarth* ; Nottingham Road, *v. d. Byl 554*, 31814 ; Jubilee Mine, Pilgrims Rest, *Brown 7*, 28749.

Hexagona albida Berk.

van der Byl (1922 c) 179, (1924 b) 309, (1925 b) 194 ; J. Phillips (1931) 160 ; Nel (1942) 75.
on dead logs, Knysna, *v. d. Byl 721, Duthie 80, 81, 316*, 31339 ; Stellenbosch, *Verwoerd* (Stell. 229) ; Durban, *v. d. Byl 78, 443*, 31753 ; ? Lomagundi, *Eyles 2700*, 14253.

Hexagona crinigera Fr.

Fries (1848) 16 ; Torrend (1905) 219.
on **Acacia Karroo** Hayne, nr. Komatipoort, *A. Roberts*, 8943.
on trunks, Natal, *Wahlberg* ; Moçambique (Torrend).

Hexagona decipiens Berk.

Cheesman (1909) 411.
on fallen branches, edge of Rain Forest, Victoria Falls, *Cheesman*.

Hexagona dermatiphora Lloyd

Lloyd (1917 a) L. 65 : 3 ; Stevenson & Cash (1936) 90.
in Rain Forest, Victoria Falls, *Duthie 159*, (Lloyd Myc. Coll. 37129) 31377, and *Green* (Stell. 246).

Hexagona discopoda Pat. & Har.

on dead wood, George, *V. A. Putterill*, 15486.

Hexagona Dregeana Lév.

Montagne (1847) 172 ; Sacc. Syll. Fung. VI : 362 ; Wakefield (1936) 51.
on trunks, " between Omtata and Omsamwubo ", *Drège 9417 b* ; Salisbury Is., *Hφeg 99* ; Buccleuch, *Doidge*, 9564.

Hexagona Dybowskii Pat.

van der Byl (1922 c) 179.
Polystictus Dybowskii (Pat.) Lloyd (1920) 1069 ; Hopkins (1938 a) 113 ; Stevenson & Cash (1936) 130.
on dead branch, Victoria Falls, *Bottomley*, (Lloyd Myc. Coll. 48880) 14116.

Hexagona Friesiana Speg.

Simpson & Talbot (1946) 134.
on **Olea laurifolia** Lam., living tree, Qudeni Forest, *Simpson & Talbot*, 34995.
on fallen log, Qudeni Forest, *Weintroub & Simpson*, 33925.

Hexagona glabra Lév.

P. Hennings (1892) 348.
on trunks, Tugela River.

Hexagona hystrix (Cooke) Har. & Pat.

Wakefield (1936) 51.
Trametes hystrix Cooke, van der Byl (1922 c) 182, (1924 b) 313, (1925 b) 195 ; J. Phillips (1931) 160 ; Hopkins (1938 a) 114 ; Nel (1942) 87.
on dead wood, Knysna, *v. d. Byl 767* ; Eshowe, *v. d. Byl 504, 526* ; Umzindeni, north of Hluhluwe, *Hφeg 33* ; Victoria Falls, *Bottomley*, 14118, *v. d. Byl 491, 499*.

Hexagona orbiculata Fr.

Fries (1848) 16 ; Sacc. Syll. Fung. VI : 365.
on trunks, Natal, *Wahlberg*.

Hexagona peltata Fr.

Fries (1848) 16.
on fallen branches, Natal, *Wahlberg*.

Hexagona phaeophora Pat.

van der Byl (1922 c) 179 ; Hopkins (1938 a) 112 ; Nel (1942) 75.
on dead logs and branches, Victoria Falls, *Bottomley*, 14117, *v. d. Byl 497*, *Duthie* (v. d. Byl 744).

Hexagona Pobeguini Har.

van der Byl (1921 f) 291, (1922 c) 179, (1926 c) 288 ; Hopkins (1939 a) 7.
Hexagona Stuhlmanni P. Henn., Lorrain Smith (1901) 469 ; Torrend (1905) 219.
on **Brachystegia Randii** Bak. f., dying branch, Salisbury, *Mossop*, 30718.
Pterocarpus angolensis DC., Pilgrim's Rest, *D.F.O.*, 27499.
on wood, Letaba Drift, *Doidge*, 1695 ; Maputa Exped., *Breijer*, 8363, 8364, 8335 ; Nelspruit, *Wickens*, 23665 ; Woodbush, *Doidge*, 1317, 1319 ; Huilla, *Welwitsch 520* ; Moçambique (Torrend).

Hexagona polygramma Mont. ex Fr.

Fries (1848) 17 ; Cooke & Kalchbrenner (1881) 26 ; Kalchbrenner (1881) 57 ; Sacc. Syll. Fung. VI : 367 ; P. Hennings (1892) 348 ; Lorrain Smith, (1901) 469 ; Torrend (1905) 219 ; Cheesman (1909) 411.

on wood, Inanda, *Medley Wood 201*, 9495, Kew and *Medley Wood 158, 169*, Kew ; Pondoland, *Bachmann* : Victoria Falls, near East Ferry, *Cheesman* ; nr. Durban, *Medley Wood*, 32034 ; Moçambique (Torrend).
fide Bresadola in Herb. Kew, *Medley Wood 201* sub *H. polygramma* and *Medley Wood 169* sub *H. tenuis* are both *H. Dregeana*.

Hexagona rigida Berk.

van der Byl (1921 f) 290, (1922 c) 179 ; Hopkins (1938 a) 112 ; Nel (1942) 76.
on **Persea americana** Mill., dead branches, Durban, *v. d. Byl 59, 217*, 14034.
on dead wood of trees undet., Town Bush Valley, *Rump 102*, 27757 : Durban, not uncommon, *v. d. Byl 748* ; Victoria Falls, *Duthie* (v. d. Byl 2445).

Hexagona Sacleuxii Har.

Maputa Exped., *Breijer*, 8360.

Hexagona similis Berk.

Lloyd (1916 d) L. 63 : 2, (1920) 952 ; Nel (1942) 76.
on dead wood, Durban, *v. d. Byl 603, 604, 611, 649*.

Hexagona sinensis Fr.

Lorrain Smith (1901) 5469.
in the woods of Ivantâla, Huilla, *Welwitsch 372 b*.

Hexagona speciosa Fr.

Fries (1848) 17 ; Sacc. Syll. Fung. VI : 365 ; Lloyd (1910 a) 21 ; van der Byl (1921 f) 291, (1922 c) 179 ; Wakefield (1936) 51 ; Hopkins (1938 a) 112 ; Nel (1942) 76.
on **Copaifera Mopane** Kirk, Ondongwa, *Barnard* (S.A.M. 45951).
on trunks and branches of trees undet., Natal, *Wahlberg* ; Bluff, Durban, *v. d. Byl 335*, 31691 ; Ngoye Forest, *Haygarth*, 15545, 15567 ; Eshowe, *Hyslop*, 31747, *Hφeg 141, 149*, Kew, *Rump 361*, 30167 ; Ginginhlovu, *Haygarth* (v. d. Byl 291) 15544, 31670 ; Zululand, *v. d. Byl 264* ; Waterberg, *Grosskopf* (v. d. Byl 1076) ; Durban, *Verwoerd* (Stell. 239), *Rump 557*, 34063 ; Melsetter, *Swynnerton*, 12800 ; Mt. Silinda Forest (Rh. 4321) 33123.

Hexagona subvelutina Wakef.

East London, Kew.

Hexagonia tenuis (Hook.) Fr.

Fries (1848) 17 ; Sacc. Syll. Fung. VI : 366 ; van der Byl (1921 f) 290, (1922 c) 180, (1926 c) 288 ; Hopkins (1938 a) 112 ; Nel (1942) 76.
on **Albizzia gummifera** (Gmel.) C. A. Sm., Stellenbosch, *v. d. Byl*, 15541.
Pyrus malus Linn., Malvern, *Doidge*, 1974.
on wood of trees undet., interior regions of the Cape, *Wahlberg* ; nr. Mont-aux-Sources, *Doidge*, 23477 ; Kentani, *Pegler 2456*, 11521 ; New Germany, *Moonsamy*, 31850 ; Buccleuch, *Doidge*, 11545 ; Ebb and Flow, Wilderness, *Doidge*, 17099 ; Margate, *Rump*, 26389 ; Caverns, *Bottomley*, 28889 ; Stella Bush, *v. d. Byl*, 31687, 31702, 31900 ; Durban, *v. d. Byl 224, 606* ; Bluff, Durban, *v. d. Byl*, 31865, 31920, 31921 ; Xumeni Forest, *Doidge*, 33066 ; Ginginhlovu, *Haygarth*, 31669, 31674 ; Ngoye Forest, *Haygarth* ; Jackson's Tuin, *Mogg*, 28259 ; Barberton, *Thorncroft*, 31549 ;

Woodbush, *v. d. Byl 1485* ; Boschfontein, Wolhuters Kop, *Doidge & Bottomley*, 33207 ; Mazoe, *Eyles 674*, 31894 ; Marandellas, *Eyles 3955* (v. d. Byl 1719) ; Umtali, *J. S. Roberts* (v. d. Byl 2414) ; Rhodesia (v. d. Byl 223).

Var. **natalensis** Fr.

Fries (1848) 17 ; Sacc. Syll. Fung. VI : 367.
on wood, Natal, *Wahlberg*.

Hexagona Thollonis Pat. & Har.

Lorrain Smith (1901) 469.
on fallen, rotten branches, near Lake Ivantâla, *Welwitsch 372*.

Hexagona tricolor Fr.

van der Byl (1922 c) 180 ; Nel (1942) 76.
on wood, Maritzburg, *J. M. Sim*, 9139 ; Stella Bush, *Moonsamy*, 15604 ; Town Bush Valley, *Rump 23*, 27602 ; Durban, *v. d. Byl 222*.

Hexagona umbrinella Fr.

Fries (1848) 17 ; Sacc. Syll. Fung. VI : 365 ; Lloyd (1920) 952.
on trunks, inland regions of the Cape, *Wahlberg* ; without locality, *v. d. Byl*.

Hexagona zambesiana Torrend

Torrend (1914) 58 ; Sacc. Syll. Fung. XXIV : 1323.
on trunks, Zumbo. *A. Cruz* (Torrend, Fung. sel. exsicc. 238), Type.

Laschia auriscalpium Mont.

P. Hennings (1892) 349.
on decaying wood, Kaffraria.

Laschia cucullata (Jungh.) Bres.

Campanella cucullata (Jungh.) Lloyd (1919 a) 814, (1924) 1318 ; van der Byl (1925 b) 195 ; Stevenson & Cash (1936) 195.
Campanella Büttneri P. Henn., van der Byl (1921 g) 345.
Arrhenia cucullata, Nel (1942) 61.
on rotting branches, Durban, *v. d. Byl* ; Knysna, *v. d. Byl 2214* (Lloyd Myc. Coll. 57800).

Laschia Duthiei Lloyd

Lloyd (1916 d) L. 63 : 4, nom. nud.
on decayed wood, Brenton, Knysna, *Duthie 89*, 31845.

Laschia Friesiana P. Henn.

Lloyd (1919 a) 833 ; Simpson & Talbot (1946) 134.
on dead branches of indigenous trees, Boshoff's Road, *Rump 73*, 27785, Kew ; Xumeni Bush, *Morgan & Doidge*, 28780, 27733; Hopevale, *Morgan*, 28907; Groot Schuur, *E. L. Stephens*, 26658, Kew ; without locality, *Duthie* ; Qudeni Forest, *Weintroub & Simpson* (T.R.L. 1678) 33281, *Simpson & Talbot*, 34996 ; Chirinda Forest, Mt. Silinda, *Obermeyer*, 32704.

Laschia rubella Sacc.

Lloyd (1922) 1162, (1923) 1186, 1192, 1208 ; v. d. Byl (1924 b) 309 ; J. Phillips (1931) 160 ; Nel (1942) 76.

on dead branches, Knysna, *v. d. Byl 711.*

Laschia tenerrima Kalchbr.

nom. nud.

on branches in bush, Boschberg, *MacOwan 1090* (S.A.M. 34503) 10930.

Laschia Thwaitesii Berk. & Br.

van der Byl (1921 f) 293 ; Nel (1942) 76.

on dead branches in bush, Durban, *v. d. Byl*, 14018 ; Maritzburg, *v. d. Byl 2577* ; Kirstenbosch, *Pocock* (v. d. Byl 2520).

Laschia sp.

Medley Wood (1898) 18.

on bark, Natal, *Medley Wood 154.*

Lenzites abietina (Bull. ex Fr.) Fr.

on wood of indigenous trees, Balgowan, *Rump 471*, 28799.

Lenzites aspera Klotzsch

van der Byl (1921 f) 289, (1922 c) 180 ; Nel (1942) 110.

on **Eucalyptus globulus** Lab., Elgin, *D.F.O.*, 7075.

Olea laurifolia Lam., Deepwalls, *J. Phillips* (v. d. Byl 2212) 18148.

on wood, Shiri Highlands, *Buchanan*, Kew.

Lenzites betulina (Linn. ex Fr.) Fr.

van der Byl (1921 f) 288, (1922 c) 180, (1925 b) 194 ; Verwoerd (1931 a) 300 ; J. Phillips (1931) 160 ; Nel (1942) 76 ; Simpson & Talbot (1946) 134.

Lenzites ochracea Lloyd (1922) 1106-1130 ; Stevenson & Cash (1936) 93.

on **Acacia mollissima** Willd., Schwarzwald Forest, *Keet*, 15576 ; Sevenoaks (T.R.L. 330).

Celtis Kraussiana Bernh., living tree, Flo Forest, *v. d. Merwe* (v. d. Byl 34) 31535 ; Katberg Main Forest, *Keet* (v. d. Byl 94) 31558.

Eucalyptis diversicolor F. Muell., Fort Cunynghame, *D.F.O.*, 6616.

Eucalyptus sp., Fort Cunynghame, *D.F.O.*, 7793 ; Knysna, *Keet*, (v. d. Byl 655) 31879.

Ocotea bullata E. Mey., Knysna, *J. Phillips.*

Olea laurifolia Lam., Schwarzwald Forest, *Keet* (v. d. Byl 4) 31521.

Pinus sp., Knysna, *Keet* (v. d. Byl 655) 31879.

Podocarpus sp., Glebe Forest, Knysna, *Doidge*, 17802.

Quercus sp., Stellenbosch, *v. d. Byl 478* ; Kirstenbosch, *Duthie 28*, 31306.

on trees undet., Knysna, *Pienaar*, 2339, *Louw*, 20465, 31333, *Duthie 75* (v. d. Byl 733) ; Deepwalls, *Bottomley*, 30696 ; Kirstenbosch, *V. A. Putterill*, 14833, *Mitchell*, 14839 *L. Bolus* (v. d. Byl 352, 1676) ; George, *V. A. Putterill*, 15485 ; Groot Schuur, *Acocks*, 27277 ; Stellenbosch, *Verwoerd* (Stell. 107) ; Horseshoe, *v. d. Byl 353*, 15575 ; Bloemfontein, *Verwoerd* ; Nottingham Road, *v. d. Byl* ; nr. Mont aux Sources, *Doidge*, 23478 ; Hopevale, *Doidge*, 27716 ; Karkloof, *Platt*, (v. d. Byl 422) ; Mooi River, *Rump 444*, 28604 ; Caverns, *Bottomley*, 28878 ; Nkandhla Forest, *Rump 380*, 30189 ; without locality, *v. d. Byl* (Lloyd Myc. Coll, 8415) ; Qudeni Forest, *Simpson & Talbot*, 34994.

Lenzites guineensis Fr.

Lloyd (1917 c) 627 ; van der Byl (1922 d) 285 ; Nel (1942) 76.
on wood, Buccleuch, *Doidge*, 9805 ; Stellenbosch, *Duthie*, *v. d. Byl* (v. d. Byl 474, 804) ; without locality, *v. d. Byl 43*, and *Leslie* (v. d. Byl 488).

Lenzites Junghuhnii Lév.

Lloyd (1915 a) L. 60 : 3 ; Nel (1942) 76.
on wood, Knysna, *Duthie 76* (v. d. Byl 1401) 31334.

Lenzites Palisoti Fr.

von Thuemen (1878 a) 354 ; Kalchbrenner (1880 b) 137 ; Wakefield (1936) 48 ; Hopkins (1938 a) 112 ; Simpson & Talbot (1946) 134.
Lenzites applanata Fr., Nel (1942) 76.
Lenzites deplanata Fries (1848) 6.
Lenzites repanda (Pers.) Fr., Pole Evans (1911 b) 263 ; van der Byl (1921 f) 288, (1922 c) 180, (1925 b) 194, (1926 c) 288 ; Doidge & Bottomley (1931) 58 ; Verwoerd (1931 a) 300 ; J. Phillips (1931) 160 ; Brown (1937) 388 ; Hopkins (1939 a) 8 ; Nel (1942) 76.
Lenzites alborepanda Lloyd (1923) 1189, 1224 ; Stevenson & Cash (1936) 92.
on **Acacia decurrens** Willd., Cramond, *Pole Evans*, 1323 ; Harden Heights, *Pole Evans*, 1322.
Acacia Karroo Hayne, Fountains Valley, *L. C. Turner*, 8877.
Acacia melanoxylon R. Br., Grootvadersbos, Swellendam, *Ross* (v. d. Byl 911).
Acacia mollissima Willd., Sevenoaks, *Bowen* (T.R.L. 322) Kew ; Butterworth, *D.F.O.*, 30101 ; common in the midlands of Natal, *v. d. Byl*.
Brachystegia Randii Bkr., Salisbury, (Rh. 1361).
Celtis Kraussiana Bernh., " Klyn Visch Rivier ", near Somerset East, *MacOwan 1065* (S.A.M. 34491) Kew ; Boschberg, *MacOwan 1066*, 22055, Kew.
Eucalyptus paniculata Sm., stumps, Duivelskloof (T.R.L. 385).
Eucalyptus sp., mine timbers, New Amianthus Asbestos Mine, *Hφeg 163* ; poles, Tzaneen, *v. d. Byl 1648* ; Knysna, *v. d. Byl 372*.
Ocotea bullata E. Mey., Hankey Forest, *Brunt*, 15050.
Olea laurifolia Lam., Petrus Brand, Knysna, J. Phillips (v. d. Byl 2090) 18035 ; Deepwalls, *J. Phillips*, 17805 ; Ngoye Forest, *Haygarth* ; Knysna, *Duthie* ; Howick, *Hobbs* ; Qudeni Forest, *Simpson & Talbot*, 34993.
Pinus radiata Don., Knysna, *Verwoerd* (Stell. 336).
Salix sp., Maclear, *Pienaar*, 2106.
on trees undet., Natal, *Wahlberg* ; Maritzburg, J. M. Sim, 8819 ; Buccleuch, *Doidge*, 11550 ; Xumeni Forest, *Morgan & Doidge*, 28941 ; Hopevale, *Doidge*, 27707 ; Gala Bush, *Doidge*, 27269 ; Ginginhlovu, *Haygarth* (v. d. Byl 293) 31671 ; Zululand, *v. d. Byl 354* ; Qudeni Forest (T.R.L. 1701) ; Ennersdale, *Hφeg 160* ; Impolweni, *Rump* (Hφeg 146) ; Town Bush Valley, *Hφeg 32* ; Woodbush, *Doidge*, 1318 ; Hectorspruit, *A. L. Hall*, 9750 ; eastern Transvaal, *Brown* ; Knysna, *Duthie* (v. d. Byl 206) 31624, *v. d. Byl 757* ; Deepwalls, *Bottomley*, 30733 ; Alexandria Forest, *Doidge*, 23350 ; George, *V. A. Putterill*, 15488 ; Blauwkrantz Rivier, *Hφeg 40*; Cape, *MacOwan*, Kew ; Cape Town, *Saxton* ; Salisbury, Eyles (Rh. 1743 : v. d. Byl 2370), *Hopkins* (v. d. Byl 2532) ; Zimbabwe, *v. d. Byl 2444* ; Cape Town, *V. A. Putterill* (Lloyd Myc. Coll, 55351) ; Fern Kloof, *Archibald*, 33378 ; Blairmoor, near Lothair, *Gunn*, 34578 ; Moçambique (Torrend).
on underground mine timbers, Jubilee Mine (T.R.L. 162) ; Randfontein Estate & Gold Mining Co. (T.R.L. 110).

Lenzites tricolor (Bull. ex Fr.) Fr.

on wood, Town Bush Valley, *Crass* (Rump 164) 28571, Kew.

Polyporus Acaciae v. d. Byl

van der Byl (1925 a) 168 ; Nel (1942) 77.
on **Acacia mollissima** Willd., common on stumps, Krantzkloof, *v. d. Byl 773*, Type.

Polyporus adustus (Willd. ex Fr.) Fr.

van der Byl (1922 c) 180, (1922 d) 286, (1924 b) 309 ; Nel (1942) 77.
on **Acacia** sp., stump, Kenilworth, *H. H. W. Pearson.*
Quercus sp., stumps, Stellenbosch, *v. d. Byl.*
on wood and bark of trees undet., Stellenbosch, *v. Heerden* (Duthie 237) 31420, *v. d. Byl 477* ; Nkandhla Forest, *Rump 355*, 30161 ; Stikland, *Acocks*, 27276 ; Kirstenbosch *Middlemost*, 24859 ; Somerset Strand, *Verwoerd* (Stell. 66) ;
on underground mine timber, Kimberley. *Wilman*, 12340.

Polyporus anebus Berk.

van der Byl (1921 f) 266 ; Nel (1942) 78.
on branches, Ngoye Forest, *Haygarth*, 14026 ; Gouna Forest, Knysna, *Keet*, 11621 ; Ginginhlovu, *Haygarth*, 15642 ; Zululand, *v. d. Byl 170.*

Polyporus arcularius (Batsch ex Fr.) Fr.

Kalchbrenner (1881) 53 ; Medley Wood (1898) 18 ; Sacc. Syll. Fung. VI : 67 ; van der Byl (1921 f) 257, (1922 c) 180, (1925 b) 194 ; Nel (1942) 78.
Polyporus brumalis (Pers. ex Fr.) Fr., von Thuemen (1876 b) 363 ; Sacc. Syll. Fung. VI : 63.
on **Curtisea faginea** Ait., Knysna, *J. Phillips* (v. d. Byl 2234).
on decaying branches, Natal, *Medley Wood 181* ; Boschberg, *MacOwan 1032* (S.A.M. 34404) Kew ; Grahamstown, *Trollip* (S.A.M. 34405) ; Pretoria, *Louwrens*, 27699 ; Town Bush Valley, *Rump 177*, 27679 ; Durban, *v. d. Byl*, 31930 ; Hopevale, *Morgan*, 33987 ; Knysna, *v. d. Byl 730, 763, 1339, 2235*, Kew ; Brenton, Knysna, *Duthie 90*, 31346 ; Vumba Mts., *Masseurs*, 33953 ; Qudeni Forest, *Weintroub & Simpson* (T.R.L. 1679).

Polyporus arenobasus Lloyd

Lloyd (1920) 919, 952, (1924) 1294; van der Byl (1921 f) 265, (1922 c) 180; Stevenson & Cash (1936) 97 ; Nel (1942) 78.
on ground, Durban, *Leslie* (v. d. Byl 710 ; Lloyd Myc. Coll. 56364, Type) 14022, Kew ; Durban, *v. d. Byl 1059, 1067* (Lloyd Myc. Coll. 56386).

Polyporus australiensis Wakefield

Lloyd (1920) 1073-4 ; van der Byl (1924 b) 312, (1925 b) 195 ; Nel (1942) 78.
Brenton, Knysna, *Duthie 258* (v. d. Byl 1442) 31435 ; Transvaal, *v. d. Byl 1441.*

Polyporus caesius (Schrad. ex Fr.) Fr.

Lloyd (1917 a) L. 67 : 5 ; J. Phillips (1931) 160 ; Nel (1942) 78.
on **Apodytes dimidiata** E. Mey., Knysna, *Duthie* (v. d. Byl 2252).

Polyporus carneo-fulvus Berk. ex Fr.

Inanda, *Medley Wood 410*, Kew.
Lloyd regards this fungus as a form of *P. gilvus.*

Polyporus chioneus Fr.

Lloyd (1911 b) L. 38 : 3.
Boschberg, *MacOwan* (S.A.M. 34465, det. Kalchbr.) ; without locality, *Pole Evans.*

Polyporus Clemensiae (Murr.) Sacc. & Trott.

Lloyd (1922) 11, 22.
without locality, *v. d. Byl.*

Polyporus conchatus Lloyd

Lloyd (1917 c) 700, (1917 a) L. 66 : 2 ; Sacc. ; Syll. Fung. XXIII : 364 ; van der Byl (1921 f) 265, (1922 c) 180, (1922 d) 286 ; Stevenson & Cash (1936) 101 ; not *P. conchatus* Pers. ex Fr.
on **Populus** sp., dead stump, Klapmuts, v. d. Byl 358, 385 (Lloyd Myc. Coll. 13288, Type) 31720, Kew.

Polyporus confluens (Alb. & Schw. ex Fr.) Fr.

Hopkins (1938 a) 112.
on ground between trees, Salisbury, *Eyles 1656*, 15656.

Polyporus confragosus v. d. Byl

van der Byl (1927) 225 ; Hopkins (1938 a) 112 ; Nel (1942) 78.
on ground, Salisbury, *Eyles 4111* (Stell. 283 ; v. d. Byl 283) Type.

Polyporus conjunctus Lloyd

Lloyd (1918 a) 812 ; Hopkins (1938 a) 112 ; Nel (1942) 78.
on ground, Salisbury, *Eyles 4115* (Rh. 2053 ; v. d. Byl 2399).

Polyporus crispus (Pers. ex Fr.) Fr.

Lloyd (1924) 1318 ; Nel (1942) 78.
without locality, *v. d. Byl 814.*

Polyporus cristatus (Pers. ex Fr.) Fr.

Cheesman (1909) 411.
Victoria Falls, *Cheesman* ; Parktown, Johannesburg, *Cheesman.*

Polyporus cuticularis (Bull. ex Fr.) Fr.

? on **Olea laurifolia** Lam., dead roots, Harkerville Plantation, Knysna, *Keet*, 13055.

Polyporus devians Bres.

Bresadola (1920) 32 ; Sacc. Syll. Fung. XXIII : 350.
on trunks, Zumbo, *Cruz.*

Polyporus dictyopus Mont.

van der Byl (1921 f) 256, (1922 c) 180 ; Nel (1942) 79 ; Simpson & Talbot (1946) 133.
on rotten wood, Natal, *Medley Wood* ; Newlands, *Bottomley*, 24857 ; Town Bush, *Rump 193, 498*, 27783, 31086 ; without locality, *v. d. Byl 125, 438*, 31749 ; on dead bark, Qudeni Forest, *Simpson & Talbot*, 34973.

Polyporus Doidgeae Wakef.

Wakefield & Talbot (1948) 948.

on **Acacia mollissima** Willd., on stumps, Hopevale, *Morgan*, 30499, Type, 30776, 27753 28576.

Polyporus durbanensis v. d. Byl

van der Byl (1921 f) 261, (1922 c) 180 ; Nel (1942) 79.

Polyporus pectunculus Lloyd (1924) 1315 ; van der Byl (1928 a) 183 ; Stevenson & Cash (1936) 114 ; not *Polystictus pectunculus* Lév.

on dead logs, Stella Bush, *v. d. Byl 896*, Type (Lloyd Myc. Coll. 23901) 14021 ; Drummond, *Rump*, 26845.

Polyporus durus Jungh.

Lloyd (1920) 1010.

on **Curtisea faginea** Ait., Gouna Forest, Knysna, *Keet*, 11623.

Polyporus elegans Fr.

Kalchbrenner (1881) 53 ; Cheesman (1909) 410.

on dead wood, Boschberg, *MacOwan* ; Victoria Falls, Matopo Hills and Cape Town, *Cheesman* ; Mbabane, *Hendricks*, 15424.

Polyporus Emerici Berk.

van der Byl (1922 c) 180, (1924 b) 310 ; Hopkins (1938 a) 112 ; Nel (1942) 79.

on rotten logs, Eshowe, *v. d. Byl 498* ; Salisbury (Rh. 2063) ; Umtali, *Eyles 4123* (v. d. Byl 2371).

Polyporus Eylesii v. d. Byl

van der Byl (1927) 225 ; Hopkins (1938 a) 112.

Salisbury, *Eyles 4113* (v. d. Byl 2420).

Polyporus favoloides P. Henn.

Lloyd (1913 c) L. 48 : 4 ; (1914) L. 52 : 11, (1916 d) L. 63 : 2.

? as **Favolus Europaeus** Fr., van der Byl (1922 c) 178 ; Nel (1942) 72.

on dead stump, Durban, *v. d. Byl 63*, 15640 ; Eshowe, *Ridgeway*, 15620, *Hyslop*, 31742.

Polyporus flabelliformis (Klotzsch) Fr.

Cooke (1879 b) 70 ; Medley Wood (1898) 18.

on trunks of trees, Natal, *Medley Wood 422*, 11134.

Polyporus flexilis v. d. Byl

van der Byl (1921 f) 271 ; (1922 c) 180 ; Nel (1942) 79.

on log, Maritzburg, *v. d. Byl 810*, Type, 14031, and *v. d. Byl 578, 894*.

Polyporus fragilis Fr.

Lloyd (1917 a) L. 66 : 2 ; Nel (1942) 79.

on wood, Maritzburg, *v. d. Byl 127* ; dam in Exchange yard, Johannesburg (T.R.L. 244).

Polyporus fruticum Berk. & Curt.

van der Byl (1921 f) 269, (1922 c) 180 ; Brown (1937) 388 ; Nel (1942) 79.
on **Acacia decurrens** Willd., Ixopo, *Brown*, 28851.
Pavetta sp., Krantzkloof, *Haygarth*, 14037, 15542.
on wood of trees undet., Maritzburg, *J. M. Sim*, 9143, *Rump*, 27634 ; Cato Ridge, *Rump*, 27635 ; Krantzkloof, *Haygarth* (v. d. Byl 478) 31770.
on mine timbers, eastern Transvaal, *Brown*.

Polyporus fumosus (Pers. ex Fr.) Fr.

Lloyd (1924) 1319.
Bosman's Crossing, Stellenbosch, *Duthie*, 31462.

Polyporus gilvus (Schw.) Fr.

Montagne (1847) 168 ; Kalchbrenner (1881) 54 ; Medley Wood (1898) 18 ; Lorrain Smith (1901) 467 : Cheesman (1909) 410 ; Lloyd (1915 d) 346 ; van der Byl (1921 f) 269, (1922 c) 180, (1925 b) 195, (1926 c) 288 ; J. Phillips (1931) 160 ; Wakefield (1936) 43 ; Doidge & Bottomley (1931) 14 ; Brown (1937) 388 ; Hopkins (1938 a) 112 ; Nel (1942) 79.
Polyporus scruposus Fr., Lloyd (1915 d) 347 ; Nel (1942) 83.
Polyporus isidioides Berkeley (1843) 415 ; Montagne (1847) 169 ; Sacc. Syll. Fung. VI : 121 ; Von Thuemen (1878 a) 354 ; Kalchbrenner (1881) 55 ; MacOwan (1895) 330.
Trametes isidioides (Berk.) Fries (1848) 10 ; Sacc. Syll. Fung. VI : 348.
on **Acacia melanoxylon** R. Br., Willowvale, *D.F.O.*, 9726.
Calodendron capense Thunb., without locality, *v. d. Byl*.
Combretum glomeruliferum Sond., Hekpoort, *J. Phillips*, 29966; Wonderboom, *Bottomley*, 23716.
Combretum Kraussii Hochst., Notinsele Forest, *D.F.O.*, 9133.
Cupressus macrocarpa Hartw., Graskop, *Pole Evans*, 14645.
Eucalyptus diversicolor F. Muell., Willowvale, *D.F.O.*, 30103.
Eucalyptus gomphocephala DC. ? Tokai, D.F.O., 20697.
Eucalyptus rostrata Schlecht., Concordia Plantation, Knysna, *Keet*, 13047.
Eucalyptus sideroxylon Cunn., Elberta, Magaliesberg, *J. Phillips*, 28794.
Eucalyptus sp., Knysna, *Duthie 29*, 31307.
Fagara capensis Thunb., Pungwana Forest, D.F.O., 9207.
Grevillea robusta Cunn., Maritzburg, *Rump 32*, 27643.
Leguminosae undet., near the lake of the hippopotami, Ivantâla, *Welwitsch 377*.
Mangifera indica Linn., Umzinto, *Rump*, 26382.
Prunus armeniaca Linn., Swellendam, *v. d. Byl 1068*.
Quercus sp., Wolfridge Plantation, *Keet* (v.d. Byl 186) 31610.
Rhus viminalis Vahl, eastern Cape, *v. d. Byl 173*, *306*.
Scolopia Mundtii Warb., Harald Forest. *Keet*, 15606 ; Hogsback, *v. d. Byl 105*, *255*, 15605 ; eastern Cape, *v. d. Byl 54* ; Ngoye Forest, *Haygarth* (v. d. Byl 255) 31651.
Strychnos Henningsii Gilg., Harkerville Forest, Knysna, *D.F.O.*, 10114, *Keet* (v. d. Byl 662) 31883.
Syzygium guineense (Willd.) DC., Lomagundi, *Eyles 6695* (v. d. Byl 1873).
Syzygium sp., Woodbush, *Doidge*, 1710.
on trees undet., Cape, *Zeyher 115* ; Natal, *Wahlberg* ; " Boschjemansrivier ", in bush, *Drège 9438 a* ; Boschberg, *MacOwan 1270*, *1063*, *1079* (Thuem. Myc. Univ. 1105 ; S.A.M.) 21969 ; Bazuja, *Baur* ; Durban, *Drège 4110*, *9439 a*, and *Medley Wood 203* ; Rain Forest, Victoria Falls, *Cheesman* ; ? Boschberg, *MacOwan 1164*, 21991 ; Maritzburg, *J. M. Sim*, 8835, *Ackerman* (Rump 11) 27524, *Rump 4*, 27525, *Rump* (v. d. Byl 2259) 26383 ; Table Mt., Natal, *Rump* (v. d. Byl 2645) ; Town Bush, *Rump 246*, *266*, *344*, 28308, 28489, 28974 ; Town Bush Valley, *Rump 126*, 27770 ; Karkloof, *Platt*

(v. d. Byl 427) ; Impolweni, *Rump 171* (Hϕeg 6) 28561, Kew ; Umgeni Bush, *Rump 365b, 379a*, 30172, 30184 ; Stella Bush, *Leslie*, 31940, *Moonsamy*, 31766, 31768, 31897 ; Durban, *v. d. Byl 351, 582, 599* ; Bluff, Durban, *v. d. Byl*, 31910 ; Amanzimtoti, *Lansdell*, 31680 ; Hopevale, *Doidge*, 27709 ; Xumeni Forest, *Morgan & Doidge*, 30262 ; nr. Mont-aux-Sources, *Bottomley*, 23480 ; Howick, *Leslie*, 31706, *Henderson* (T.R.L. 287), *Hobbs* ; Nkandhla Forest, *Rump 365*, 30170 ; Eshowe, *Morrison*, 31646 ; Ginginhlovu, *Haygarth*, 31668 ; Selheim M.S., Eshowe, *Hϕeg 171*, Kew ; Umzindeni River, *Hϕeg 28* ; Hogsback, *v. d. Byl*, 31563 ; Kentani, *Pegler 2459*, 11524 ; Wilderness, *Doidge*, 17100 ; Swellendam, *v. d. Byl 761* ; Stutterheim, *Sr. de Victoria*, 25876 ; Brenton, Knysna, *Duthie 257*, 31434, 31622 ; Groot Rivier, *Archibald*, 33380 ; Knysna, *Duthie*, 31641, *v. d. Byl 266, 371, 756* ; Deepwalls, *Bottomley*, 30734 ; Cape Town, *Saxton* ; Newlands, *E. L. Stephens*, 24829 ; Wonderboom, *Doidge & Bottomley*, 28797 ; Fountains Valley, *v. d. Byl*, 15539 ; Rietfontein, Pretoria Distr., *Venter*, 14486 ; Pretoria, *Howlett & Coetzee*, 2124 ; Entabeni, *Bottomley*, 26576 ; Elim, *Watson*, 25360 ; Barberton, *Thorncroft*, (v. d. Byl 300) ; Malelane, *A. L. Hall*, 9648 ; Pretoria, *v. d. Byl 281* ; Woodbush, *Doidge*, 1725 and *v. d. Byl* ; Lobatsi, *v. d. Byl 820* ; Sabie Plantation (T.R.L. 145); Duivelskloof (T.R.L. 386); Salisbury, *Eyles 1607, 4138* (v. d. Byl 2344) 12222 ; Victoria Falls, *M. R. H. Thomson*, 14112 ; without locality, *v. d. Byl*, Kew.
on underground mine timber, Jubilee Mine (T.R.L. 144) ; Desiré Mine (T.R.L. 146).

Polyporus Goetzii P. Henn.

Lloyd (1917 a) L. 66 : 7, Note 582 ; Hopkins (1938 a) 112 ; Nel (1942) 80.
? on ground, Salisbury, *Eyles 2529* (v. d. Byl 1877) 14851 ; Durban, *Moonsamy*, (v. d. By 343) 31697.

Polyporus grammocephalus Berk.

on **Lachnopylis floribunda** (Benth.) C. A. Sm., Deepwalls, *J. Phillips*, 18149.
on trunks of trees, Inanda, *Medley Wood 99, 212, 419*, Kew.

Polyporus hispidus (Bull.) Fr.

Lloyd (1912 b) L. 39 : 3.
without locality, *Duthie*.

Polyporus immaculatus Lloyd

Lloyd (1915 d) 299, (1916 d) L. 63 : 2, (1924) 1294.
as *Polyporus immaculatus* Fr., v. d. Byl (1921 f) 262, (1922 c) 181.
on **Pinus** sp., West Springs Mine, *Brown*, 28828.
Podocarpus latifolius R. Br., on dead wood, Schwarzwald Forest, *v. d. Byl*, 11275, 15598.
on tree undet., Cato Ridge, *Rump*, 27636 ; Town Bush Valley, *Rump 202*, 27800.

Polyporus intactilis Lloyd

Lloyd (1919 c) 887 ; Stevenson & Cash (1936) 108 ; Nel (1942) 80.
on dead wood, Victoria Falls, *Bottomley* (Lloyd Myc. Coll. 22040) 14113 ; Durban, *Leslie* (v. d. Byl 617) ; without locality, *v. d. Byl 884* (Lloyd Myc. Coll. 3141).

Polyporus Livingstoniensis v. d. Byl

van der Byl (1925 a) 168 ; Hopkins (1938 a) 113 ; Nel (1942) 81.
on dead wood, Victoria Falls, *v. d. Byl 799*.

Polyporus Mac Owani Kalchbr.

Kalchbrenner (1881) 54 ; Sacc. Syll. Fung. VI : 126
on trunks, Boschberg, *MacOwan 1085.*
Saccardo, l.c., suggested that *Polyporus MacOwani* is the same fungus as *P. dichrous* Fr. Lloyd (1915 d) 382 was of the opinion that it is *Polyporus adustus* (Willd. ex Fr.) Fr., and van der Byl (1924 b) 310, adopted his suggestion. " The specimen is so poor that it is difficult to judge what it is; to me it suggests *P. dichrous* rather than *P. adustus.*" E. M. Wakefield.

Polyporus megaloporus Mont.

Lloyd (1920) 952.
without locality, *v. d. Byl.*

Polyporus molluscus Karst.

Kalchbrenner (1881) 56.
Somerset East, *MacOwan.*

Polyporus murinus (Lév.) Cooke
on trunks, Boschberg, *MacOwan 1015* (S.A.M. 34452).

Polyporus nanus Massee

Cheesman (1909) 410
in rain forest, Victoria Falls, *Cheesman.*
Doubtful record. " *P. nanus* Mass. seems to be a nomen nudum. The specimen Massee so named came from Australia and is the same as *P. rhipidium* Berk. What the S. African plant was I do not know."—E. M. Wakefield.

Polyporus nidulans Fr.

Kalchbrenner (1881) 54.
Boschberg, *MacOwan* (? ex herb. Medley Wood) 32038.

Polyporus nigro-applanatus v. d. Byl

van der Byl (1924 b) 311 ; Nel (1942) 81.
in bush, Durban, *v. d. Byl 808.*

Polyporus ochroleucus Berk.

Cheesman (1909) 411 ; van der Byl (1921 f) 258, (1922 c) 181 ; Nel (1942) 81 ; Simpson & Talbot (1946) 133.
on **Curtisea faginea** Ait., Katberg Main Forest, *v. d. Byl 171, 179,* 11245, 15611.
Trichocladus sp., eastern Cape, *Keet.*
on dead wood, eastern Cape, *Keet* ; Matopo Hills, *Cheesman* ; Karkloof, *Platt* (v. d. Byl 421); Buxton, *v. d. Byl 171,* 31600; on living tree undet., Qudeni Forest, *Simpson & Talbot,* 34974.

Polyporus ochroporus v. d. Byl

van der Byl (1921 f) 269, (1922 c) 181 ; Nel (1942) 82.
on **Salix** sp., Maritzburg, *Rump 448* (v. d. Byl 2768) 30229.
on dead stump, Brander's High Forest, *Keet* (v. d. Byl 115) Kew ; Eshowe, *Noble,* 32477 ; Hluhluwe Game Reserve, *Rump 552,* 34061.

Polyporus ostreiformis Berk.

van der Byl (1924 b) 311 ; J. Phillips (1931) 160 ; Nel (1942) 82.
on dead wood, Knysna, *v. d. Byl 716.*

Polyporus Pancheri Pat.

Hopkins (1938 a) 113 ; Nel (1942) 82 as " *P. Paucheri* ".
on dead wood, Salisbury, *Eyles 4150, 4224, 4292* (Rh. 2064) ; Umtali, *Eyles,* (v. d. Byl 2410).

Polyporus Patouillardi (Rick) Theiss.

van der Byl (1921 f) 268, (1922 c) 181 ; Stevenson & Cash (1936) 114 ; Hopkins (1938 a) 113 ; Nel (1942) 82.
on **Celtis Kraussiana** Bernh., Salisbury, *Eyles 3896* (v. d. Byl 1716).
Scolopia Mundtii Warb., Tyititi Forest, *Keet,* 9178.
on wood, Xumeni Forest, *Morgan & Doidge,* 28925 ; Maritzburg, *Rump* (v. d. Byl 2733) Kew ; eastern Cape, *v. d. Byl 26.*

Polyporus picipes Fr.

on dead trunks and decaying wood, Boschberg, *MacOwan 1188 b* (S.A.M. 34423) ; Boschberg, *MacOwan 1188* (S.A.M. 34425) 20927.

Polyporus pocula (Schw.) Berk. & Curt.

Lloyd (1917 c) 624 ; van der Byl (1922 c) 181, (1924 b) 311 ; Nel (1942) 82.
on **Eucalyptus** sp., on bark, Belvidere, Knysna, *Duthie 109* (v. d. Byl 1084) ; George, *Verwoerd* (Stell. 232 ; v. d. Byl 2079).
on bark of indigenous tree, Forest Hall, Knysna, *Duthie 109 a,* 31353.

Polyporus pruinatus Klotzsch

Lloyd (1915 d) 339.
Cape Town, *Saxton.*

Polyporus raphanipes Wakef.

Massee & Wakefield (1914) 157 ; Sacc. Syll. Fung. XXIII : 354.
Zumbo, *A. Cruz* (comm. Torrend) Kew.

Polyporus rheades Pers.

Cape Town, *Saxton,* Kew.

Polyporus rhipidius Berk.

Cooke (1879 b) 70.
as *Favolus rhipidium* (Berk.) ? Sacc., Medley Wood (1898) 18.
on branches, Natal, *Medley Wood 351,* 11133, Kew.

Polyporus rugulosus Lév.

Wakefield (1936) 43 ; Brown (1937) 387.
on logs, Knysna, Kew ; Blauwkrantz R., *Hφeg 94,* Kew ; Nkandhla Forest, *Rump 394,* 30195.
on underground mine timbers, Johannesburg, *Hφeg 117* ; Randfontein Estates, *Lurie* (T.R.L. 112) 28743 ; Jubilee Mine, Pilgrim's Rest, *Lurie 2, 6,* (T.R.L. 170) 28831, 28757 ; Crown Mines, *Lurie 4* (T.R.L. 25) 28842, Kew ; Geduld Prop. Mines, *Lurie 8*

(T.R.L. 88) Kew ; Robinson Deep, *Lurie 3*, (T.R.L. 42) 28843, Kew ; Nourse Gold Mine, *Hφeg 117* and (T.R.L. 18) ; City Deep (T.R.L. 46) ; Geldenhuis Deep (T.R.L. 67) ; Rose Deep (T.R.L. 55) ; Van Ryn Deep (T.R.L. 73) ; New Modderfontein Gold Mine (T.R.L. 82) 28845 ; New Amianthus Mine (T.R.L. 116) ; New State Areas (T.R.L. 296) ; Venterspost Gold Mine (T.R.L. 1533) ; Grootvlei Proprietary Mines (T.R.L. 1274) ; West Springs (T.R.L. 442) ; Consolidated Main Reef (T.R.L. 860).

isolated by spore catch in mines, South African Lands & Exploration Co. (T.R.L. 1522) ; Simmer & Jack Mines (T.R.L. 1730) ; Modderfontein Deep Levels (T.R.L. 948).

Polyporus rusticus Lloyd

Lloyd (1918 a) 751 ; van der Byl (1921 f) 272, (1922 c) 181, (1922 d) 286 ; Stevenson & Cash (1936) 119.

on **Pinus** sp., stump, Klapmuts, *v. d. Byl 387* (Lloyd Myc. Coll. 3148) 13940, and *v. d. Byl 285*.

Polyporus sacer Fr.

Montagne (1847) 168 ; van der Byl (1921 f) 256, (1922 c) 181 ; Nel (1942) 83.
Polystictus sacer Fr., Sacc. Syll. Fung. VI : 213.

on decayed wood, Cape, *Drège 4114* ; Elandshoek, Barberton, *Thorncroft*, 9112 ; Durban, *Medley Wood* ; New Guelderland, *Addison* (v. d. Byl 747) ; Kentani, *Pegler 2454*, 11519 ; Durban, *v. d. Byl*, 15551 ; Eshowe, *v. d. Byl 389*, 31723.

on soil, Umtwalumi, *Lansdell*, 28663.

Polyporus salisburiensis v. d. Byl

van der Byl (1927) 226 ; Hopkins (1938 a) 113 ; Nel (1942) 83.

on stump, Salisbury, *Eyles 4220* (v. d. Byl 2437).

Polyporus Schreuderi v. d. Byl

van der Byl (1924 b) 311 ; Nel (1942) 83.

on dead stump, Knysna, *v. d. Byl 720*.

Polyporus Schweinitzii

on underground mine timber, Rose Deep (T.R.L. 58).

Polyporus sector (Ehrenb. ex Fr.) Fr.

on dead wood, Ceres, *H. H. W. Pearson*.

Polyporus subradiatus Lloyd

Lloyd (1915 d) 346, (1915 a) L. 60 : 3. 11 ; van der Byl (1921 d) 271, (1922 c) 181 ; Stevenson & Cash (1936) 122 ; Nel (1942) 83.

on **Eucalyptus globulus** Lab., Steynsdorp, *Roberts*, 11273, 15609.
Eucalyptus sp., eastern Cape, *v. d. Byl 171*.

on dead wood of trees undet., Kimberley, *Wilman*, 15660 ; without locality, *Pole Evans* (Lloyd Myc. Coll. 3147).

Polyporus sulphureus (Bull. ex Fr.) Fr.

MacOwan (1891) 182 ; van der Byl (1921 f) 265, (1922 c) 181, (1922 d) 286, (1925 b) 195 ; J. Phillips (1931) 159 ; Wakefield, (1936) 43 ; Nel (1942) 84.

on **Eucalyptus obliqua** L'Herit., Harkerville Forest, Knysna, *Keet* (v. d. Byl 666) 13054, 31885.

Eucalyptus sp., Gouna Forest, Knysna, *Keet*, 11624 ; Stellenbosch and Cape Town, *v. d. Byl* ; Klapmuts, *v. d. Byl 261.*
Olea laurifolia Lam., Knysna, *J. Phillips*, 17810.
Quercus Robur Linn., Tokai, *D.F.O.*, 20419 ; Stellenbosch, *Verwoerd* (Stell. 14).
Quercus sp., near Cape Town, *MacOwan* (S.A.M.) ; Groot Constantia, *Lansdell*, 28785 and (T.L.R. 209) : Stellenbosch Distr., *Duthie 19*, 31301 ; Stellenbosch, *V. A. Putterill*, 14510 : Cape Town, *v. d. Byl*, and *Péringuey* (v. d. Byl 261 a) ; Tokai (T.R.L. 1481) ; without locality, *Janse.*
on dead wood, nr. Town Bush Valley, *Hoeg 137* ; Harkerville Forest, Knysna, *Duthie* (v. d. Byl 221) 31633, *Keet*, 13053 : Maritzburg, *Rump*, 26401 : Bulwer, *Rump*, 27605 ; Stellenbosch and Cape Town, *v. d. Byl* ; without locality, *v. d. Byl*, 11276 ; without locality, *Torrend* : Kirstenbosch (T.R.L. 246) ; Florida Lake (T.R.L. 1087) : Qudeni Forest, *Weintraub & Simpson* (T.R.L. 1672).

Polyporus Telfairii Klotzsch

van der Byl (1924 b) 312, (1925 b) 195 ; J. Phillips (1931) 160 ; Nel (1942) 84.
on trunks, Knysna, *Duthie 73* (v. d. Byl 1399) 31331.

Polyporus trabeus Rostk.

Lloyd (1917 a) L. 66 : 2 ; Nel (1942) 84.
on wood, Stellenbosch, *Duthie* (v. d. Byl 165) 15637.

Polyporus transvaalensis v. d. Byl

van der Byl (1925 a) 169, (1926 c) 289 ; Nel (1942) 84.
on rotten wood, Haenertsburg, *v. d. Byl 1475.*

Polyporus Trichiliae v. d. Byl

van der Byl (1921 f) 262, (1922 c) 181 ; Nel (1942) 84.
on **Trichilia emetica** Vaill., Durban, *v. d. Byl 897*, Type, 14032 Kew ex Lloyd Myc. Coll. 908, and *v. d. Byl 572.*
on dead wood, Mooi River, *Rump 141*, 28548 ; Rooikopjes, *Read* (T.R.L. 703) 30827 ; Town Bush Valley, *Rump 1, 3*, 27528, 27529 ; Durban, *v. d. Byl 129, 608.*

Polyporus undatus Pers.

van der Byl (1921 f) 259, (1922 c) 182.
on logs, Maritzburg, *v. d. Byl 128, 375*, 31713, *Rump* (v. d. Byl 2579, 2579 a, 2576) : Town Bush Valley, *Rump 140*, 27776.

Polyporus undulatus Torrend

Torrend (1914) 58 ; Sacc. Syll. Fung. XXIV : 1322.
on sandy ground, Zumbo, *A. Cruz* (Torrend, Fung. sel. exs. 230).

Polyporus vallatus Berk.

Lloyd (1915) L. 58 : 4.
South Africa, without locality (Lloyd).

Polyporus varius Fr.

Cheesman (1909) 411 : van der Byl (1921 f) 256, (1922 c) 182 : Nel (1942) 84.
on **Curtisea faginea** Ait., Horse Shoe Forest, *v. d. Byl 298*, 11278, 15543.
on dead wood, in Rain Forest, Victoria Falls, *Cheesman.*

Polyporus veluticeps Cooke

Cooke (1884) 6 ; Sacc. Syll. Fung. VI : 82.
on wood, Senna, Moçambique, *Kirk*.

Polyporus velutinosus Lloyd

Lloyd (1917 a) L. 67 : 2, (1922) 1162 ; Stevenson & Cash (1936) 125 ; Nel (1942) 84.
on wood, Karkloof, *Platt* (v. d. Byl 424) ; Durban, *v. d. Byl 545* ; without locality, *v. d. Byl* (Lloyd Myc. Coll. 19091, 22140) ; Natal, *Janse* (Lloyd Myc. Coll. 19049).

Polyporus vernicipes Berk.

Torrend (1905) 218.
Moçambique (Torrend).

Polyporus vicinus Lloyd

Lloyd (1924) 1294, 1331 ; van der Byl (1924 b) 312 ; Stevenson & Cash (1936) 125 ; not *P. vicinus* Bres.
Natal, v. d. Byl 1153, 1154 (Lloyd Myc. Coll. 40500) Kew.

Polyporus virgatus Berk. & Curt.

Simpson & Talbot (1946) 133.
on **Acacia mollissima** Willd., stump, Hopevale, *Morgan*, 30499, 30776.
on tree undet., Amanzimtoti, *Lansdell* (v. d. Byl 317) 31681 ; Compensation Beach, *Rump 362*, 30168 ; on ground, Qudeni Forest, *Simpson & Talbot*, 34972.

Polystictus affinis (Blume & Nees) Fr.

Lloyd (1916 c) 618.
Polyporus affinis Blume & Nees, Cooke (1879 b) 70 ; Medley Wood (1898) 18.
on trunks of trees undet., Natal, *Medley Wood 419*, 11135 ; Mt. Silinda, *Obermeyer*, 30474 ; without locality, *v. d. Byl*.

Polystictus affinis-concinnus Lloyd

Lloyd (1916 c) 618 ; Stevenson & Cash (1936) 126.
sub *Polystictus affinis* (Blume & Nees) Fr., Lloyd (1916 d) L. 63 : 2.
Durban, *v. d. Byl 259*, Type (Lloyd Myc. Coll. 38867).

Polystictus aratus (Berk.) Cooke

Wakefield (1936) 47.
Polyporus aratus Berk., van der Byl (1921 f) 270, (1922 c) 180, (1926 c) 288 ; Nel (1942) 78.
Polyporus luteo-olivaceus Berk. & Br., Hopkins (1938 a) 113.
on **Acacia mollissima** Willd., Sevenoaks (T.R.L. 336, 340).
on dead wood, Mazoe, *Eyles 7099* ; Umtali, *Eyles 4222* (v. d. Byl 2409) ; Victoria Falls, *Bottomley*, 14115 ; Bluff. Durban, *Hœg 66*, *v. d. Byl 158*, *340*, 31695 ; Munyana River, *Hœg 134* ; Table Mt., Natal, *Rump*, 27554 ; New Germany, *Moonsamy*, 15546 ; Durban, *v. d. Byl*, 13938, 31754 ; Sevenoaks, *Bowen* (T.R.L. 336) Kew ; Krantzkloof, *v. d. Byl 200* ; Howick, *Leslie* (v. d. Byl 370) 31708 and *Hobbs* ; Schroeders, *v. d. Byl*, 11283, 15591, 31760 ; Stella Bush, *Moonsamy*, 15590 ; Maritzburg, *Rump 406*, 30206 ; Natal, *v. d. Byl 532* ; Zululand, *v. d. Byl 169* ; Ngoye Forest, *Haygarth*, (v. d. Byl 276) 31663 ; Brander's High Forest, *Keet*, and *v. d. Byl 85*, *142*, 31555, 31587 ; Port St. Johns, *Rump 477*, 30821 ; Stutterheim, *Sr. de Victoria*, 25877 ;

Woodbush, *v. d. Byl* ; Lemana, *Doidge*. 1700 ; Bokfontein, *Mogg*, 27374 ; Boschfontein, Wolhuters Kop, *Doidge & Bottomley*, 33208 ; Hluhluwe Game Reserve, *Rump 622*, *629*, 34368, 34388.

Polystictus argenteus Lloyd

Lloyd (1920) 1069, (1922) 1112 ; Stevenson & Cash (1936) 128 ; Hopkins (1938 a) 113.

on dead wood, Victoria Falls, *Bottomley*, Type (Lloyd Myc. Coll. 48883) 14111.

Polystictus azureus Fr.

Lloyd (1917 a) L. 66 : 3.

on wood, Buccleuch, *Doidge*, 9804.

Polystictus Baurii (Kalchbr.) Cooke.

Cooke (1886) 79 ; Sacc. Syll. Fung. VI : 226 ; Killermann (1928) 186.

Polyporus Baurii Kalchbrenner (1881) 53.

on trunks, Bazuja, Kaffraria, *Baur*, Type (MacOwan 690, 698 ; S.A.M. 34411) ; Boschberg, *MacOwan 1080* (S.A.M.) ; Garcia's Pass, Riversdale (S.A.M. 38822) ; Heidelberg, Cape, *Thorn* (S.A.M. 44535).

Polystictus beharensis (Berk.) Cooke

Wakefield (1936) 48.

on wood, Victoria Falls, *Hφeg 105*.

Polystictus biformis (Klotzsch) Fr.

Sacc. Syll. Fung. VI : 240.

Polyporus biformis Klotzsch, Kalchbrenner (1881) 55 ; van der Byl (1921 f) 258, (1922 c) 180 ; Nel (1942) 78.

on **Populus** sp., Baakens River Valley, *K. M. Putterill*, 28532.

Rapanea melanophleos Mez., Horseshoe Forest, *v. d. Byl*, 15583.

on old logs, Bazuja, *Baur* (MacOwan 696 ; S.A.M. 34463) ; Inanda, *Medley Wood 534*, 9473 ; Horseshoe Forest, *v. d. Byl*, 13059 ; Bluff, Durban, *v. d. Byl*, 31914 ; eastern Cape, *Keet* and *v. d. Byl 166*, *1140* ; Waterberg, *Grosskopf* (v. d. Byl 1077).

Polystictus bulbipes Fr.

Polyporus cladonia Berk., Kalchbrenner (1881) 53 : Sacc. Syll. Fung. VI : 211.

Natal, *Medley Wood 124*, *160*, Kew.

Polystictus cinnabarinus (Jacq. ex Fr.) Cooke

Wakefield (1936) 46.

Polyporus cinnabarinus (Jacq. ex Fr.) Fr., van der Byl (1921 f) 263, (1922 c) 180 ; J. Phillips (1931) 160 ; Nel (1942) 78.

on **Aloe** spp., Woodbury, *Hφeg 158* ; Koningskroon, *Hφeg 107* ; Alicedale, *Cruden*, 12184.

Olea sp., living tree, Pirie Forest, *v. d. Byl 154*, 31593.

on logs, Maritzburg, *Hφeg 19* ; Bluff, Durban, *Hφeg 74* ; Durban, *v. d. Byl 528* ; Natal, *Moonsamy*, 31931 ; Umzindeni R., nr. Hluhluwe, *Hφeg 31* ; nr. Schoenberg, *Hφeg 49* ; Ngoye, *Haygarth* (v. d. Byl 267) 31656 ; Ginginhlovu, *Haygarth* (v. d. Byl 307) 31676 ; Stellenbosch (Stell. 67) ; eastern Cape, *v. d. Byl* ; Cape Town, *Pole Evans*, 9807.

Polystictus circinatus (Fr.) Cooke

Cooke (1886) 77 ; Sacc. Syll. Fung. VI : 208.
Trametes circinatus Fries (1848) 8.
Natal, *Wahlberg.*

Polystictus coccineus (Fr.) Lloyd

Lloyd (1916 d) L. 2 : 3, 7, Note 440.
without locality, *Marloth.*

Polystictus Cryptomeriae P. Henn.

Lloyd (1918 a) 758, (1917 a) L. 66 : 12 as *P. Cryptomeniae.*
on dead wood, Bluff, Durban, *v. d. Byl*, 15548.

Polystictus detonsus Fr.

Trametes detonsa Fries (1848) 13.
Natal, *Wahlberg.*

Polystictus discipes (Berk.) Fr.

Natal, *Medley Wood 410*, Kew.

Polystictus Doidgei Lloyd

Lloyd (1924) 1294, 1329 ; Stevenson & Cash (1936) 130.
on **Olea laurifolia** Lam., Deepwalls, *Doidge*, Type (Lloyd, Myc. Coll. 38870) 17796, Kew.

Polystictus elongatus (Berk.) Fr.

Kalchbrenner (1881) 54 ; Sacc. Syll. Fung. VI : 231.
Somerset East, *MacOwan.*

Polystictus Ecklonii Berk. ex Cooke

Cooke (1887) 23 ; Sacc. Syll. Fung. VI : 250 ; Hennings (1892) 345 ; Cheesman (1909) 411.
on branches, South Africa, *Ecklon & Zeyher* ; Zumbo, *Torrend*, Kew ; South Africa, *Bresadola*, Kew ; Rain Forest, Victoria Falls, *Cheesman* ; Pondoland, *Bachmann.*

Polystictus Fergussoni Berk. ex Cooke

Cooke (1887) 23 ; Sacc. Syll. Fung. VI : 236.
on trunks, Natal.

Polystictus flavus (Jungh.) Fr.

Lloyd (1912 b) L. 39 : 3, (1924) 1318 ; van der Byl (1926 c) 288 ; Nel (1942) 85.
on **Acacia** sp., Buffelsdrift, *Pienaar*, 1644.
on wood, Woodbush, *v. d. Byl* ; Potgietersrust, *Malherbe* (v. d. Byl 1672).

Polystictus floccosus (Jungh.) Fr.

Wakefield (1936) 46.
on wood, nr. Umzindeni R., north of Hluhluwe, *Hφeg 38* ; Victoria Falls, *Hφeg 75.*

Polystictus funalis Fr.

Wakefield (1936) 46.
Trametes funalis Fr., Cooke (1880 b) 14.
on wood, Inanda, *Medley Wood 433*, Kew ; Umzindeni R., north of Hluhluwe, Hφeg 175 ; between Lusaka and Broken Hill, *Pole Evans*, 28661.

Polystictus gallo-pavonis (Berk. & Br.) Cooke

Lloyd (1922) 1122.
Polyporus gallo-pavonis Berk. & Br., van der Byl (1922 c) 180, (1924 b) 310 ; Nel (1942) 79.
on old stumps, Eshowe, *v. d. Byl 506*.

Polystictus glauco-effusus Lloyd.

Lloyd (1924) 1318, (1925) 1334 ; Stevenson & Cash (1936) 132 ; Nel (1942) 85.
Polyporus glauco-effusus (Lloyd) van der Byl (1926 c) 289.
on **Eucalyptus** sp., poles, Woodbush, *v. d. Byl 1470*, Type (Lloyd Myc. Coll. 53641).

Polystictus glaucoporus Lloyd

Lloyd (1925) 1334 ; Stevenson & Cash (1936) 132.
Polyporus glaucoporus (Lloyd) van der Byl (1924 b) 313 ; Hopkins (1938 a) 113 ; Nel (1942) 80.
Victoria Falls, *v. d. Byl 1066*, Type (Lloyd Myc. Coll. 53827).

Polystictus glirinus (Kalchbr.) Cooke

Cooke (1886) 83.
Polyporus glirinus Kalchbrenner (1881) 55.
Somerset East, *MacOwan 1015*, Kew.

Polystictus helvolus Fr.

Lloyd (1916 d) L. 63 : 2, 10, Note 458.
as *Polyporus helvolus* (Fr.) Nel (1942) 80.
on wood, Bazuja, *Baur 694* (S.A.M. 34424) ; Boschberg, *MacOwan 1425*, 20945 ; Cramond, *v. d. Byl*, 15603 ; Natal Midlands, *v. d. Byl 51*.

Polystictus hirsutulus (Schw.) Cooke

Lloyd (1916 d) L. 62 : 2, (1920) 1010.
Polyporus hirsutulus Schw., van der Byl (1921 f) 260, (1922 c) 181, (1926 c) 289.
on **Acacia mollissima** Willd., Eston, Mid-Illovo, *Pole Evans*, 5185.
on wood, Maritzburg, *Sim*, 9146 ; Town Bush Valley, *Rump*, 27526 ; Woodbush, *v. d. B yl*

Polystictus hirsutus (Wulf ex Fr.) Fr.

Sacc. Syll. Fung. VI : 257 ; Pole Evans (1911 b) 263 ; Wakefield (1936) 46 ; Hopkins (1931 c) 664, (1938 a) 113 ; Nel (1942) 110.
Polyporus hirsutus Wulf ex Fr., Montagne (1847) 170 ; Berkeley (1876) 174 ; Kalchbrenner (1881) 55 ; van der Byl (1921 f) 260, (1922 c) 181 ; J. Phillips (1931) 160 ; Nel (1942) 80.
on **Acacia decurrens** Willd., Dalton Bridge Road, *Hφeg 118* ; Barberton, *Thorncroft*.
Acacia mollissima Willd., Cramond and Harden Heights, *Pole Evans*, 1331 ; Impolweni, *v. d. Byl 2736*, Kew ; Sevenoaks (T.R.L. 323).
Berlinia sp., Rhodesia, *Hopkins*.

Citrus sinensis Osbeck, Maritzburg, *Ackerman* (Rump 150) 28468.
Gymnosporia peduncularis L. Bolus, Knysna, *J. Phillips*, 18041.
on wood of trees undet., " Hoogekraalsrivier in forest ", *Drège 9428* ; foot of Table Mt., *Eaton* ; Bazuja, *Baur 691* ; Somerset East, *MacOwan 1093* (S.A.M. 344433) ; Kenilworth, *H. H. W. Pearson* ; Table Mt., Natal, *Rump* (v. d. Byl 2720, 2731, 2740) Kew ; Greytown, *v. d. Byl 2734*, Kew ; Ivy Range, Moodie's, *Thorncroft*, 15644 : Newlands, *Lansdell*, 24864 ; Knysna, *v. d. Byl 208*, 31626 ; Ngoye Forest, *Haygarth* (v. d. Byl 266) 31657 ; Impolweni, *Rump 172*, 28477 and *v. d. Byl 2736*, Kew ; Kamberg, Mooi River, *Crass* (Rump 145) 28549 ; Deepwalls, *Bottomley*, 30737 ; Giants Castle, *Crass* (Rump 141) 28545 ; Xumeni Forest, *Morgan & Doidge*, 30263 ; Marwaqa Forest, *Morgan & Doidge*, 30838 ; Shamva (Rh. 1257) ; Solheim M.S., Eshowe, *Hφeg 57* ; Maritzburg, *Rump* (v. d. Byl 2257, 2570).
on timber in storage, Johannesburg (T.R.L. 382).

Polystictus hirtellus Fr.

Polyporus hirtellus Fr., van der Byl (1921 f) 261, (1922 d) 181.
Maritzburg, *Sim*, 9141 ; Howick, *Hobbs*.

Polystictus inconstans (Kalchbr.) Cooke

Cooke (1886) 82 ; Sacc. Syll. Fung. VI : 250.
Polyporus inconstans Kalchbrenner (1881) 55.
Somerset East, *MacOwan 1080*, Type, Kew ; Bazuja, *Baur 688, 690*, Kew.

Polystictus iodinus (Mont.) Fr.

Lloyd (1912 b) L. 39 : 3.
on trunks, Boschberg, *MacOwan 1085* (S.A.M. 34427) ; Woodbush, *Doidge*, 1721.

Polystictus lanatus Fr.

Lloyd (1912 b) L. 39 : 2, L. 42 : 8.
Trametes lanata Fries (1848) 10 ; Torrend (1905) 219.
on wood, Natal, *Wahlberg* ; Town Bush, *Rump 284*, 28691 ; Lemana, *Doidge*, 1698 ; Moçambique (Torrend).

Polystictus leoninus (Klotzsch) Fr.

Lloyd (1920) 952, 1010, (1922) 1130 ; Hopkins (1938 a) 113.
Polyporus leoninus Klotzsch, van der Byl (1921 f) 264, (1922 c) 181 ; Nel (1942) 80.
on **Eucalyptus** sp., Meintjes Kop, *Thompson*, 14509.
on dead wood, Illovo, *Poss* (v. d. Byl 390) 31724 ; Maritzburg, *Rump*, 26381 ; Xinavane Estate, *le Roux*, 12186 ; Pretoria, *Vos*, 12251, 14694 ; Meintjes Kop, *Venter*, 14490 ; Swaziland, *Pole Evans*, 26357 ; Lomagundi, *Eyles 2703*, 14252 ; Wonderboom, *Doidge & Bottomley*, 28727 ; Umfolosi, *v. d. Byl 916* ; Durban, *v. d. Byl 211, 297* ; Charter, *Eyles* (v. d. Byl 2343) ; Waterberg, *Grosskopf* (v. d. Byl 1075) ; Uwanetsi River, *Bell Marley* (v. d. Byl 1262).

Polystictus luteus (Blume & Nees) Fr.

Wakefield (1936) 46.
Polyporus luteus Blume & Nees, van der Byl (1921 f) 263, (1922 c) 181.
in old indigenous forest, Eshowe, *Hφeg 135, 155* ; Ngoye Forest, *Haygarth*, (v. d. Byl 540) ; Cape Town, *Saxton* ; Ginginhlovu, *Haygarth* (v. d. Byl 312) 14024, 31678.

Polystictus Macounii Lloyd

Lloyd (1914) L. 53 : 9 ; (1920) 1010 ; Stevenson & Cash (1936) 135.
on wood, Knysna, *Pienaar* (Lloyd Myc. Coll. 53784) 2340 ; without locality, *Duthie*, (Lloyd Myc. Coll. 52790).

Polystictus meleagris (Berk.) Cooke

Lloyd (1924) 1294.
Polyporus meleagris Berk., van der Byl (1924 b) 310, (1925 b) 195 ; Nel (1942) 81.
on dead wood, Knysna, *v. d. Byl 1351.*

Polystictus mimetes Wakef.

Wakefield (1936) 46.
on branches, Victoria Falls, *Hφeg 84*, Kew.

Polystictus occidentalis (Klotzsch) Fr.

Torrend (1905) 218 ; Pole Evans (1911 b) 263 ; Wakefield (1936) 47 ; Hopkins (1938 a) 113 ; Brown (1937) 388.
Polyporus occidentalis Klotzsch, Lorrain Smith (1896) 342, (1901) 468 ; v. d. Byl (1921 f) 263, (1922 c) 181, (1922 d) 286 ; Nel (1942) 81.
on **Acacia decurrens** Willd., Cramond, *Pole Evans*, 1327.
Acacia mollissima Willd., Willowvale, *D.F.O.*, 30102.
Afzelia quanzensis Welw., dead wood, Lourenço Marques, *Tooke*, 33754.
Albizzia gummifera (Gmel.) C. A. Sm., common in the eastern Cape, *Keet*; Stella Bush, *v . d. Byl*, 31686.
Citrus sinensis Osbeck, Nelspruit, *Hall*, 6685.
Persea americana Mill., eastern Cape, *Keet.*
Prunus salicina Lindl., Maritzburg, *French* (Rump 310) 28707.
Salix sp., Maritzburg, *Rump 671*, 33991.
on dead wood of trees, undet., Boschberg, *MacOwan 1131*, Kew ; Natal, *Medley Wood 535*, 9482, 10641, Kew ; Durban, in bush, *Drège 9429* ; nr. Lopollo, Huilla, *Welwitsch* ; Chilome, Lower Shire, *Elliott* ; Winkle Spruit, *Pole Evans*, 5645 ; Maritzburg, *J. M. Sim*, 8818, 9204, *Rump* (v. d. Byl 2617) 26380 ; 31980 ; Port St. Johns, *Rump 476*, 30820 ; Bluff, Durban, *v. d. Byl 275, 338, 764*, 31693, *Moonsamy*, 11249 ; 15573 ; Stella Bush, *Moonsamy*, 31945, *Leslie*, 31701 ; Umgeni Bush, *Hobbs*, 31820 ; Town Bush Valley, *Rump 30*, 27606 ; Margate, *Rump*, 26385 ; Bot. Gardens, Durban, *Moonsamy*, 31649 ; New Germany, *Moonsamy*, 31856, 31857 ; Eshowe, *Ridgeway* 31631 ; Howick, *Hobbs* ; Zululand, *Hφeg 43, 123, 152, 162, 165, 167, 169* and *v. d. Byl 284, 289* ; Ginginhlovu, *Haygarth*, 31675 ; Elim, *Watson*, 26324 ; Selati River, *Kretzschmar*, 15051 ; Zoutpansberg, *Watson*, 25917 ; Kruger National Park, *Young* (Stell. 245) ; Rietfontein, Pretoria Distr., *Venter*, 15016 ; Nelspruit, *A. Roberts*, 8876 ; Alexandria Forest, *Doidge*, 23349 ; Stellenbosch, *v. Heerden* (Duthie 328) 31421 ; Kasane, *E. L. Stephens*, 25491 ; Port St. Johns, *Rump 476*, 30820 ; Victoria Falls, *Hφeg 51, 108* ; Umtali, *Eyles 4226* (v. d. Byl 2415) ; Sinoia, *Hopkins* (v. d. Byl 2533) ; Lake St. Lucia, *Rump 627, 639*, 34373, 34558 ; Kirstenbosch, *J. Acocks* (E. L. Stephens 354) 34558 ; Moçambique (Torrend).
on mine timbers, Jubilee Mine, *Lurie* (T.R.L. 151).

Polystictus ochraceus (Pers.) Lloyd

Trametes ochraceus (Pers.) Lloyd (1916 d) L. 63 : 2 ; Nel (1942) 87.
Polyporus ochraceus Pers., van der Byl (1926 c) 289 ; Nel (1942) 81.
on **Eucalyptus** sp., poles, Tzaneen, *v. d. Byl 1458.*
Olea laurifolia Lam., Flo Forest, *v. d. Byl*, 11253, 15588.

Schotia latifolia Jacq., Gxulu Forest, *v. d. Byl*, 15589.
on wood, Stellenbosch, *van Heerden* (Duthie 239) 31422 ; Woodbush, *v. d. Byl 1645* ; Table Mt., Natal, *Rump*, 26386 ; Durban, *v. d. Byl 136, 809* ; Gouna Forest, Knysna, *Keet* (v. d. Byl 495) 11622.

Polystictus perennis (Linn. ex Fr.) Fr.
on **Curtisea faginea** Ait., on chips of wood, Petrus Brandt, Knysna, *J. Phillips*, 18032.

Var. **simillimus** Lloyd.
Rondebosch, *E. L. Stephens*, 26656.

Polystictus pergamenus Fr.
Nel (1942) 82.
on **Acacia mollissima** Willd., Impolweni, *Rump* (v. d. Byl 2265).
on wood, Town Bush, *Rump 312*, 28674.

Polystictus phocinus (Berk. & Br.) Cooke.
Polyporus phocinus Berk. & Br., van der Byl (1921 f) 270, (1922 c) 181 ; Nel (1942) 82.
on logs, Durban, *v. d. Byl 52, 167, 337*, 15585, 31692 ; ? Caverns, *Bottomley*, 28887 ; Port St. Johns, *Rump 475*, 30819.

Polystictus pinsitus Fr.
Hopkins (1938 a) 113.
Polyporus pinsitus Fr., van der Byl (1921 f) 261, (1922 c) 181 ; Hopkins (1939 a) 14 ; Nel (1942) 82.
on **Combretum** sp., Charter, *Eyles 4092* (v. d. Byl 2382) ; Salisbury (Rh. 2065).
on dead wood, Knysna, *v. d. Byl 2232*, Kew ; Durban, *v. d. Byl 135, 269*, 13939.

Polystictus polyzonus (Pers.) Cooke
Lloyd (1915 a) L. 60 : 3.
on **Acacia decurrens** Willd., Marua Place, nr. Durban, *v. d. Merwe*, 11250, 15592.
Salix sp., Harrismith, *V. A. Putterill*, 12994.

Polystictus pubescens (Schum. ex Fr.) Fr.
Polyporus pubescens Schum. ex Fr., van der Byl (1921 f) 261, (1922 c) 181.
without locality, *v. d. Byl.*

Polystictus radiato-rugosus Bres.
Bresadola (1920) 36 ; Sacc. Syll. Fung. XXIII : 414 ; Killermann (1928) 186.
on trunks, Moçambique, *Torrend.*

Polystictus regius (Miq.) Cooke
Miquel (1852) 191 ; Sacc. Syll. Fung. VI : 229.
on felled trunks, chiefly Aloes, Cape, *Drège, Zeyher.*

Polystictus rugosissimus Torrend
Torrend (1914) 56 ; Sacc. Syll. Fung. XXIV : 1323.
on trunks, Boroma, *C. Witz* (Torrend, Fung. sel. exsicc. 219).

Polystictus sanguineus (Linn. ex Fr.) Fr.

Sacc. Syll. Fung. VI : 229 ; Torrend (1905) 218 ; Cheesman (1909) 410 ; Eyles (1915) 277 ; Juel (1918) 48 ; Doidge & Bottomley (1931) 41 ; Wakefield (1936) 46 ; Hopkins (1938 a) 113 ; Simpson & Talbot (1946) 133.

Polyporus sanguineus Linn. ex Fr., von Thuemen (1876 b) 363 ; Montagne (1847) 168 : Berkeley (1876 a) 174 ; Kalchbrenner (1881) 54 ; van der Byl (1921 f) 263, (1922 c) 181, (1922 d) 286, (1925 b) 195, (1926 b) 289 ; Nel (1942) 83.

Boletus sanguineus Linn., Thunberg (1800) 182, (1823) 755.

on **Acacia decurrens** Willd., Harden Heights *Pole Evans*, 1324.

Acacia mollissima Willd., without locality, *v. d. Byl.*

Aloe arborescens Mill., Nelspruit, *Mogg*, 25452 ; Magaliesburg, *Kresfelder*, 31527.

Aloe arborescens var. **natalensis**, Eshowe, *Gerstner*, 28729.

Aloe Marlothii Berger, Komatipoort, *A. Roberts* (v. d. Byl 19) 31526.

Aloe spp., Uitenhage, *Pienaar*, 2296 ; Despatch, *Holland*, 14819 : Boschberg, *MacOwan 1008* (Thuem. Myc. Univ. 805) 21971, 22071, Kew.

Cassine sp., living tree, Qudeni Forest, *Simpson & Talbot*, 34975.

Eucalyptus globulus Lab., Maritzburg, *J. M. Sim*, 8797.

Eucalyptus sp., Barberton, *Thorncroft*, 2128 ; Woodbush, *v. d. Byl.*

Garcinia Livingstonei T. Anders., Vila nona de Gaza, Moçambique, *Earthy*, 23082.

Heteromorpha arborescens Cham. & Schlecht., Groenkloof, *Mogg*, 27365.

Homalium sp., Qudeni Forest, *Simpson & Talbot*, 34975.

Olea laurifolia Lam., Deepwalls, *J. Phillips*, 18050 ; Grootvadersbos, Swellendam, *Ross* (v. d. Byl 1675 a) : Schwarzwald Forest, *Keet* (v. d. Byl 507) 31522, 31523 ; timber in storage, Johannesburg (T.R.L. 358).

Olea sp., Qudeni Forest, *Simpson & Talbot*, 34975.

Pinus sp., Kirstenbosch, *Bottomley*, 30723 ; Entabeni, *Watson*, 25883.

Quercus sp., foot of Lion's Head, below Kloof Road, *Eaton* ; Stellenbosch, *Verwoerd* (Stell. 47).

Salix sp., Umtata, (T.R.L. 281).

Xymalos monospora Baill., without locality, *v. d. Byl.*

on dead wood of trees undet., " Hoogekraalsrivier, in woods ", *Drège 9434* ; Grootvaderbosch, *Thunberg* ; Uitenhage, *Zeyher*, Kew ex Herb. Berk. ; Bazuja, *Baur* (MacOwan 685) ; Natal, *Medley Wood 98, 237* ; Cape Town, *MacOwan 3032*, 21970 ; Karkloof, *Doidge*, 14837 : Maritzburg, *J. M. Sim*, 9137 ; nr. Mont-aux-Sources, *Bottomley*, 23397 ; Hopevale, *Doidge*, 27713 : Gala Bush, *Doidge*, 27270 ; Xumeni Forest *Morgan & Doidge*, 30878 ; Town Bush Valley, *Hφeg 77* ; Qudeni Forest, *Weintroub & Simpson* (T.R.L. 1670, 1671) ; Salisbury Is., *Hoeg 130* ; Stella Bush, *Ritchie*, 31666 ; Solheim M.S., Eshowe, *Hφeg 35*; Maputa Exped., Moçambique, *Breijer*, 8362 ; Lourenço Marques, *Junod*, 12247 ; Krantzkloof, *Lansdell*, 31630 ; Karkloof, *Platt* 32004 ; Swaziland Border, *E. P. Phillips*, 14209 ; Zimbeti Forest, *Honey*, 12467 ; Shiri Highlands, Kew ; Cazenga, *H. H. W. Pearson*, Kew ; Deepwalls *Bottomley*, 30697 ; Knysna, *J. Phillips*, 17808, *v. d. Byl 2241*, *Pienaar*, 2342 : George, *Gower*, 20461 ; Wilderness, *Mogg*, 25439 : George, *Fouché*, 17821, *Mogg*, 29722, *Putterill*, 15482 : Kirstenbosch, *L. Bolus* (v. d. Byl 1675), ; Newlands, *Péringuey*, 9184, *E. P. Phillips* (S.A.M. 9555) ; Kat River Valley, *Moore*, 20684 ; East London, *Mogg*, 17809, 23639; Stutterheim, *Sr. de Victoria*, 25878; Kentani, *Pegler*, 8416 ; Fort Cunynghame *Robertson*, 6695 ; Grahamstown, *Gower*, 14641 ; Pirie Forest *Schaefer*, 30888, *v. d. Byl 155, 263*, 31594, *Pole Evans*, 12314 ; Heidelberg, Cape, *Thorn* (S.A.M. 44534) ; Garcia's Pass, Riversdale, *Thorn* (S.A.M. 38821) ; Swellendam, *v. Heerden* (Duthie 8) 31297 ; Jackson's Tuin, *Mogg*, 28257 ; Malelane, *A. L. Hall*, 9747 ; Graskop, *Burtt Davy*, 76, *Schilz*, 15504 ; Lydenburg, *Dyer*, 30504 ; Woodbush, *Doidge*, 1716, *N. Roberts*, 5653 ; Rooikopjies, *Read* (T.R.L. 207) Kew ; Forbes Reef, *A. Roberts*, 11284 : Sabie Plantation (T.R.L. 198) ; Duivelskloof (T.R.L. 391) ; Tzaneen (T.R.L. 625) : Waterberg, *Kretzschmar*, 14208 ; Victoria Falls, in Rain Forest

and Palm Kloof, *Cheesman* ; Salisbury, *Eyles 2764* (v. d. Byl 2439) 14251, 14862 ; Victoria Falls, *Gibbs* (Rh. 165) ; Sinoia, *Hopkins* (v. d. Byl 2535) ; Moçambique (Torrend).

Polystictus scorteus Fr.

Lloyd (1912 b) L. 40 : 7.

Cape Town, Saxton.

" Type at Kew ; probably a form of *P. occidentalis* ".—E. M. Wakefield.

Polystictus spadiceus (Jungh.) Cooke

Polyporus spadiceus Jungh., Montagne (1847) 169 ; Lloyd (1917 a) L. 66 : 3 ; Nel (1942) 83.

in bush, Durban, *Drège 4110, 9439 b* ; near Durban, *Burton*, 9798 ; Zululand, *v. d. Byl 796*.

? **Polystictus stereinus** Berk. & Curt.

as *Polystictus* ? *stereoides* Berk. non Fr. (Ms. name) Medley Wood (1898) 18.

on decaying wood, Natal, *Medley Wood 674*, 11141.

Polystictus subiculoides Lloyd

Lloyd (1924) 1331 ; Stevenson & Cash (1936) 139.

on **Acacia mollissima** Willd., Impolweni, *Rump 168*, 28559.

Eucalyptus sp., Maritzburg, *Rump 160*, 28556.

Grevillea robusta Cunn., Maritzburg, *Pole Evans* (Lloyd Myc. Coll. 48723) 1357 ; Town Bush Valley, *Rump 187*, 28472.

Quercus sp., Johannesburg, *Lurie* (T.R.L. 208) 28772.

on dead wood of trees undet., Town Bush Valley, *Rump 35, 139*, 27775, 27651 ; Maritzburg, *Rump 161*, 28469, Kew ; Umgeni Bush, *Rump 365 a, 371*, 30171, 30179 ; Deepwalls, *Bottomley*, 30742.

Polystictus subpictilis P. Henn.

Lloyd (1916 a) 2, 7.

Polyporus subpictilis (P. Henn.) van der Byl (1921 f) 271, (1922 c) 181 ; Nel (1942) 83.

on wood, eastern Cape, *Keet*. 14028, 15612 ; George, *V. A. Putterill*, 15483 ; Pirie Forest, *Schaefer*, 30889, *Archibald*, 34202 ; Mooi River, *Crass*, 28572 ; without locality, *v. d. Byl 895* ; Mariepskop, *Scott*, 34073.

Polystictus tabacinus (Mont.) Fr.

Wakefield (1936) 48.

Polyporus tabacinus Mont., van der Byl (1921 f) 268, (1922 c) 181, (1926 c) 289 ; Nel (1942) 84.

on tree trunks and dead wood, Ngoye Forest, *Haygarth*, 14038 ; Ginginhlovu, *Haygarth*, 15561 ; Eshowe, *Hφeg 80, v. d. Byl 496, Hyslop* (v. d. Byl 429) 31741 ; Umhlali, *Rump 387*. 30192 ; Woodbush, *v. d. Byl 1476* ; Zululand, *v. d. Byl 311* ; Vumba Mts., *Masseurs*, 33952.

Polystictus torridus Fr.

Kalchbrenner (1881) 56.

Cape, *MacOwan* ; without locality, *Duthie*.

Polystictus vellereus (Berk.) Fr.

Kalchbrenner (1881) 56.
on wood, Inanda, *Medley Wood 164*.

Polystictus velutinus (Pers. ex Fr.) Cooke

Sacc. Syll. Fung. VI : 258.
Polyporus velutinus Pers. ex Fr., Kalchbrenner (1881) 56 ; Medley Wood (1898) 18 : van der Byl (1921 f) 260, (1922 c) 182, (1925 b) 195 : J. Phillips (1931) 160 : Nel (1942) 84.
on **Acacia mollissima** Willd., Harden Heights, *Pole Evans*, 1333.
Salix sp., Pretoria, *Pole Evans*, 1558.
on dead wood and fallen branches, Boschberg, *MacOwan 1061* (S.A.M. 34455), 20963, Kew; Inanda, *Medley Wood 525*, 31796, Kew; Forest Hall, Knysna, *Duthie 266* (v. d. Byl 1398) 31442 ; Bulwer, *Rump*, 26388, 27597 ; Caverns, *Bottomley*, 28886 ; Xumeni Forest, *Morgan & Doidge*, 30877 : Maritzburg, *Rump 154*, 28554 ; Greytown, *Rump*, 26387 ; Karkloof, *Bayer*, 34542 ; Randfontein Estates, *Lurie* (T.R.L. 13) 28753.

Polystictus versicolor (Linn. ex Fr.) Fr.

Sacc. Syll. Fung. VI : 253 ; Brown (1937) 383 ; Hopkins (1938 a) 115.
Polyporus versicolor Linn. ex Fr., Montagne (1847) 176 ; von Thuemen (1876 b) 312 ; Berkeley (1876 a) 174 : Kalchbrenner (1881) 56 ; van der Byl (1921 f) 259 ; (1922 c) 182, (1922 d) 286, (1925 b) 195, (1926 c) 289 ; J. Phillips (1931) 160 : Nel (1942) 84.
Boletus versicolor Linn., Thunberg (1800) 182, (1823) 755.
on **Acacia decurrens** Willd., Maritzburg, *Pole Evans*, 1332.
Acacia sp., Kenilworth, Cape, *H. H. W. Pearson*.
Eucalyptus sp., burned trunk, Stellenbosch, *Verwoerd* (Stell. 46) ; underground mine timber, Pilgrim's Rest, *Lurie* (T.R.L. 194) 28834, Kew.
Prunus communis Fritsch, Bloemfontein, *Verwoerd*.
Prunus persica Sieb. & Zucc., Paarl and Stellenbosch, *v. d. Byl*.
Salix sp., Pretoria, *Howlett*, 2103 ; Nottingham Road, *v. d. Byl 159, 536*, 31803.
on dead wood and on stems and trunks in bush, Boschberg, *MacOwan 1071*, (S.A.M. 34450). 22072, Kew : " ad Koratra cum *Schizophyllo* ", *Drège 9432* ; grounds of Govt. House and foot of Table Mt., *Eaton* : Mont aux Sources, *Doidge*, 23482 ; Xumeni Forest, *Morgan & Doidge*, 30726 ; Marwaqa Forest, *Morgan & Doidge*, 30849 ; Caverns, *Bottomley*, 28881 ; Town Bush Valley, *Rump 29*, 27608 : Midlands of Natal, *v. d. Byl 199* : Qudeni Forest, *Weintroub & Simpson* (T.R.L. 1692) : Deepwalls, *Bottomley*, 30739 : Knysna, *Duthie 78*, 31336, *Gower*, 20603, *v. d. Byl 714* : Kirstenbosch, *Bottomley*, 24830, 24847, *Mitchell*, 14838. *Duthie 122*, *v. d. Byl 124* : Stellenbosch, *Duthie 247*, 31427 ; Jonkershoek, *Duthie 248*, 31429 : Groot Schuur, *Acocks*, 27278 ; Garstfontein, *Doidge*, 30522, *Bottomley*, 30722 ; Pretoria, *Doidge*, 30721 ; Barberton, *Thorncroft* (v. d. Byl 291) ; Woodbush, *v. d. Byl 1480* : Tzaneen (T.R.L. 623) ; Umtali, *Eyles 7100*, Kew.
on underground mine timbers, Jubilee Mine (T.R.L. 154) : Pilgrim's Rest, *Lurie* (T.R.L. 114) 28754.

Polystictus villosus (Swartz ex Fr.) Cooke

Polyporus villosus Swartz ex Fr., Montagne (1847) 170 ; Sacc. Syll. Fung. VI : 238.
Witberg, *Drège 9427*.

Polystictus vinosus (Berk.) Cooke

Polyporus vinosus Berk., van der Byl (1921 f) 270, (1922 c) 182 ; Nel (1942) 85.
on **Eucalyptus** sp., Town Bush Valley, *Rump 89*, 27791.
on old stumps and logs, Schroeders, *v. d. Byl 467*, 31764 ; Maritzburg, *v. d. Byl 139* ; Mt. Silinda Forest (Rh. 4323) 33125.

Polystictus vittatus (Berk.) Fr.

Polyporus vittatus Berk., van der Byl (1924 b) 312 ; Nel (1942) 85.
Zululand, *v. d. Byl 537*.

Polystictus xanthopus Fr.

Polyporus xanthopus Fr., Torrend (1905) 218 ; van der Byl (1921 f) 257, (1922 c) 182 ; Nel (1942) 85.
on wood, Ngoye Forest, *Haygarth*, 15566, *Ballenden* : Zululand, *v. d. Byl 626, 749* ; Nelspruit, *A. Roberts*, 8879 ; Dooley, *Bottomley*, 13794 ; Moçambique, (Torrend).

Polystictus xanthopus-concinnus Lloyd

Lloyd (1916 c) 618 ; Stevenson & Cash (1936) 140.
Durban, *v. d. Byl 284* (Lloyd Myc. Coll. 38868).

Polystictus zonatus Fr.

Polyporus zonatus Fr., van der Byl (1921 f) 260, (1922 d) 286, (1925 b) 195 ; Doidge & Bottomley (1931) 68 ; J. Phillips (1931) 160.
on **Acacia melanoxylon** R. Br., Cedara, *Foster*, 9540.
Celtis Kraussiana Bernh., Katberg Main Forest, *Keet*, 11257, 15586.
Olea laurifolia Lam., Knysna, *J. Phillips* (v. d. Byl 2084).
Quercus sp., Harkerville, *Keet*, 13056.
on dead wood of trees undet., Woodbush, *Doidge*, 1713, 1715, 1719 ; Lemana, *Doidge*, 1698 ; Duivelskloof, *Doidge*, 1702 ; Mont aux Sources, *Bottomley*, 23476 ; Mooi River, *Crass* (Rump 142, 164), 28546, 28558 ; Knysna, *Gower*, 20596, *Keet*, 32482, 32483 ; George, *V. A. Putterill*, 15490 ; Stellenbosch, *Duthie 247 a*, 31428 ; Durban, *Hobbs* (v. d. Byl 584) 15587 ; Transvaal, *v. d. Byl 138* ; Barberton, *Thorncroft* (v. d. Byl 67) 31550 ; Horseshoe Forest, *v. d. Byl 89 a*, 31556.

Poria aneirina (Sommerf. ex Fr.) Cooke

Polyporus aneirinus Sommerf. ex Fr., Kalchbrenner (1881) 56 ; Medley Wood (1898) 18.
on wood, Inanda, *Medley Wood 159* (S.A.M. 34426).

Poria attenuata Peck

? on **Acacia mollissima** Willd., Town Bush Valley, *Rump 414*, 30212.

Poria callosa (Fr.) Cooke

Polyporus callosus Fr., Kalchbrenner (1881) 56.
Boschberg, nr. Somerset East, *MacOwan* ; Bazuja, *Baur 702* (S.A.M. 34464).

Poria citrina Mass.

Cheesman (1909) 410.
in Rain Forest, Victoria Falls, *Cheesman*.

Poria contigua (Pers. ex Fr.) Cooke

Simpson & Talbot (1946) 133.

? as *Polyporus MacOwani* Kalchbr. in Herb. Kew.

on **Homalium** sp., dead tree, Qudeni Forest, *Simpson & Talbot*, 34965.

Mimusops Zeyheri Sond., dead wood, Wolhuter's Kop, *Doidge & Bottomley*, 33186.

on wood of indigenous trees, Cape, *MacOwan* ; Compensation Beach, *Rump 413*, 30211 ; Town Bush, *Rump 269*, *289*, *290*, 28501, 28695, 28696.

Poria corticola (Fr.) Cooke

Polyporus corticola Fr., Kalchbrenner (1881) 56.

on bark, Inanda, *Medley Wood 153*, *188* (S.A.M. 34462) 11149 : Town Bush Valley, *Rump 36*, *80*, 27652, 27786 ; Xumeni Forest, *Morgan & Doidge*, 28917.

Poria epilintea (Berk. & Br.) Cooke

Polyporus epilinteus Berk. & Br., Kalchbrenner (1881) 56.

as *Polyporus carneo-pallens* Berk. in Herb. S.A.M.

on dead branches, Boschberg, *MacOwan 1073* (S.A.M. 34428).

Poria epimiltina (Berk.) Lloyd

on wood, Compensation Beach, *Rump 427*, 30218, 30163.

Poria ferruginosa (Schrad. ex Fr.) Karst.

Lloyd (1917 a) L. 66 : 13, (1920) 952.

on wood, Knysna, *Duthie 191*, 31395 ; Town Bush, *Rump 271*, 28491.

Poria sp., cfr. *P. lacticolor* Murr.

without locality, *v. d. Byl 2236*, Kew.

Poria laevigata (Fr.) Karst.

on dead wood, Xumeni Forest, *Doidge*, 28945.

Poria mollusca (Pers. ex Fr.) Cooke

on dead wood, Nottingham Road, *Ackerman*, 27623 ; Cato Ridge, *Rump*, 27638 ; Caverns, *Bottomley*, 28884.

Poria obliqua (Pers. ex Fr.) Karst.

on wood of indigenous trees, Maputa Exped., *Breijer*, 8357 ; Umgeni Bush, *Rump 351*, 30159 ; Town Bush Valley, *Rump 108*, 27762.

Poria radula (Pers. ex Fr.) Cooke

Hopkins (1938 a) 113, (1939 c) 592.

on dead log, Umtali (Rh. 3454) 30635 : on wood, Duivelskloof, *Read* (T.R.L. 201) 28965.

Poria Ravenelae (Berk. & Br.) Cooke

? on **Phoenix reclinata** Jacq., Compensation Beach, *Rump 378*, 30183.

Poria rufitincta Berk. & Curt.

Simpson & Talbot (1946) 133.

on dead wood, George, *V. A. Putterill*, 15491 : Qudeni Forest, *Simpson & Talbot*, 34964.

Poria sanguinolenta (Alb. & Schw. ex Fr.) Cooke

Polyporus sanguinolentus Alb. & Schw. ex Fr., Kalchbrenner (1881) 56 ; Medley Wood (1898) 18.
on decaying wood, Durban, *Medley Wood 156*.

Poria spissa (Schw. ex Fr.) Cooke

Lloyd (1916 d) L. 63 : 4.
without locality, *Duthie*.

Poria subliberata (Berk. & Curt.) Cooke

Polyporus subliberatus Berk. & Curt., Kalchbrenner (1881) 56.
on wood, Boschberg, *MacOwan*.

Poria umbrina (Fr.) Cooke

Polyporus ferruginosus Rostr., in Herb. S.A.M.
on trunks in bush, Boschberg, *MacOwan 1158* (S.A.M. 34432).

Poria vaporaria (Fr.) Cooke

Cheesman (1909) 410 ; Brown (1937) 388.
Polyporus vaporarius Fr., Berkeley (1876 a) 174.
on **Acacia mollissima** Willd., underground mine timber, Riverview Mine, Wedberg, *Wilman*, 23503.
Eucalyptus gigantea Dehnh., Jessievale Plantation, *D.F.O.*, 20460.
on wood, foot of Table Mt., *Eaton*, Kew ; without locality, *Drège, Kew* ; Groot Schuur, *Cheesman* ; Knysna, *Bottomley*, 30747.
on underground mine timbers, Jubilee Mine, Pilgrim's Rest, *Lurie* (*T.R.L. 31, 149, 147, 178*) 28759, 28836 ; Nourse Mines, *Bottomley*, 28718, *Brown* (T.R.L. 1) ; Crown Mines, (T.R.L. 29) ; New Modderfontein Gold Mine, (T.R.L. 84, 560) ; New Amianthus Mine (T.R.L. 129, 134) ; Durban Roodepoort Deep (T.R.L. 667).
on pitch pine in storage, Johannesburg (T.R.L. 1894, 1896) ; on flooring boards, Johannesburg (T.R.L. 1129).

Poria versipora (Pers.) Lloyd

Lloyd (1917 a) L. 66 : 2.
Polyporus versiporus Pers., van der Byl (1921 f) 259, (1922 c) 182 ; Nel (1942) 85.
on dead wood, Durban, *v. d. Byl 345, 346*, 14030, 15584, 31698, *v. d. Byl 164, 172, 654* ; Hopevale, *Morgan*, 27751 ; Town Bush, *Rump 227, 285 a, 304, 397*, 28280, 28692, 28694, 28701, 30198 ; Xumeni Forest, *Morgan & Doidge*, 28944 ; Umhlali, *Rump 418*, 30213.

Poria vincta (Berk.) Cooke

Polyporus vinctus Berk., Kalchbrenner (1881) 56.
on wood, Somerset East, *MacOwan 1185*.

Poria vulgaris (Fr.) Cooke

Polyporus vulgaris Fr., Montagne (1847) 170 ; Kalchbrenner (1881) 56.
on **Acacia mollissima** Willd., Town Bush Valley, *Rump 81*, 27787.
on wood, " Omsamwubo", *Drège 9424 c* ; Boschberg, *MacOwan 1069* (S.A.M. 34466).

Porothelium incanum (Kalchbr.) Sacc.

Sacc. Syll. Fung. VI : 423.
Stigmatolemma incanum Kalchbrenner (1882 a) 104.
on wood Somerset East, *MacOwan*.

Strobilomyces strobilaceus (Scop. ex Fr.) Berk.

Cheesman (1909) 411.
edge of Rain Forest, Victoria Falls, *Cheesman*

Trametes albotexta Lloyd

Lloyd (1916 c) 614, (1916 d) L. 63 : 2 ; van der Byl (1921 f) 284, (1922 c) 182 ; Sacc. Syll. Fung. XXIII : 433 ; Brown (1937) 388 ; Stevenson & Cash (1936) 142 ; Nel (1942) 86 ; Simpson & Talbot (1946) 134.
on **Cedrela** sp., Klein Australië, *Bottomley*, 26327.
Grevillea sp., Klein Australië, *Bottomley*, 26325.
Olea laurifolia Lam., fallen tree, Qudeni Forest, *Simpson & Talbot*, 34985.
Podocarpus sp., on dead wood, Hlatikulu, *v. d. Byl 181*, Type (Lloyd Myc. Coll. 39178) 14020, 15568 ; Knysna, *Duthie* ; eastern Cape, *v. d. Byl 312*.
on dead wood of trees undet., Stellenbosch, *Duthie*, 15633 ; Klein Australië, *Bottomley*, 26326.
on mine timbers, Jubilee Mine, Pilgrim's Rest, *Lurie* (T.R.L. 27) 28758, (T.R.L. 172) Kew ; New Amianthus Mine, *A. L. Smith* (T.R.L. 133) Kew ; Randfontein Estates (T.R.L. 113) Kew ; Robinson Deep (T.R.L. 39).

Trametes ambigua (Berk.) Fr.

Kalchbrenner (1881) 56.
Somerset East, *MacOwan 1065*, *1066*.
According to Lloyd (1920) 984, *MacOwan 1066* is *Lenzites repanda*.

Trametes aratoides Pat. & Har.

as *Polyporus aratoides* (Pat. & Har.) Lloyd (1923) 1189.
without locality, *V. A. Putterill*.

Trametes balanina Fr.

Fries (1848) 15 ; Sacc. Syll. Fung. VI : 354.
on trunks, Natal, *Wahlberg*, Type.

Trametes capensis Lloyd

Lloyd (1920) 1010, nom. nud.
on **Acacia Karroo** Hayne, Fountains Valley, *L. C. Turner*, 8820.
This fungus was named by Lloyd (l.c.) and described in a letter dated 7th August, 1920, but the description was omitted from his published notes. The following is Lloyd's description : " Sessile, hard, ligneous. Context and pores isabelline. Surface reddish-brown, minutely velutinate. Pores small, rigid, irregular. Spores not found. This belongs in Sect. 128 but is close to *Trametes devexa* (in 131). The yellowish context and minutely velutinate surface alone distinguish it. The spores have the same appearance. Based on collection 8820, L. C. Turner."

Trametes captiosa Mont.

Montagne (1847) 170 ; Sacc. Syll Fung. VI : 349.
on trunks and branches, " Zuureberg nr. Bontjesrivier ", *Drège 9433 b*, Type.

Trametes cervina (Schw.) Bres.

Hopkins (1938 a) 113, (1939 a) 14.
on **Citrus sinensis** Osbeck, Mazoe, *Bates*.

Trametes cingulata Berk.

van der Byl (1921 f) 28, (1922 c) 182, (1926 c) 289 ; Wakefield (1936) 50 ; Hopkins (1938 a) 114 ; Nel (1942) 86 ; Simpson & Talbot (1946) 134.
as *Trametes pictus*, Lorrain Smith (1895) 342.
on **Acacia decurrens** Willd., Dalton Bridge Road, *Hφeg 115, 116, 126, 128*, Kew.
Acacia mollissima Willd., Cramond, *v. d. Byl 215*, 11246 ; Pinetown, *v. d. Byl 750* ; Krantzkloof, *v. d. Byl 108*.
Acacia sp., Balfour, Cape, *Keet, v. d. Byl 106*, 31564.
Eucalyptus sp., Zwartruggens, *Sutton*, 30521 ; Tzaneen, *v. d. Byl 1464* ; Zoutpansberg, *Hofmeyr* (Stell. 184).
Prunus armeniaca Linn., Pretoria, *Klasing* (v. d. Byl 805).
on dead stumps and logs of trees undet., Xumeni Forest, *Morgan & Doidge*, 30876 ; Cramond, *v. d. Byl 212*, 31629 ; New Germany, *Moonsamy* (v. d. Byl 603) 31849 ; Ennersdale, *Hφeg 3* ; Town Bush Valley, *Hφeg 42*; Krantzkloof, *Lansdell* (v. d. Byl 211) 31628 ; Sevenoaks (T.R.L. 355) ; Natal, *v. d. Byl* (Stell. 64) ; Umzindeni R., north of Hluhluwe, *Hφeg 30, 36* ; Ngoye Forest, *Haygarth* (v. d. Byl 261), 31655 ; Qudeni Forest, *Simpson & Talbot*, 34984 ; Howick, *Leslie, Hobbs* ; Glen, *Potgieter*, 14691 ; Kasani, *E. L. Stephens*, 25492 ; Lobatsi, *Breach* (Duthie 286 ; v. d. Byl 817) 31458 ; Pretoria, *Howlett*, 20610, *v. d. Byl 794* ; Sevenoaks, (T.R.L. 355) ; Knysna, *Louw*, 20467, Saltpan, *Pienaar*, 2127, *Watson*, 26407 ; Rietfontein, Pretoria Distr., *Venter*, 14489 ; Buffelspoort, *Doidge*, 30751 ; Pietersburg, *Hofmeyr* (v. d. Byl 1711) ; Limpopo Valley, *Kretzschmar*, 12465 ; Duivelskloof, *Read* (T.R.L. 206) 28970 ; Waterberg, *Grosskopf* (v. d. Byl 1074) ; Potgietersrust, *Grosskopf*, (v. d. Byl 1671) ; Rooiwal, *Bosman*, 27506 ; Maputa Exped., *Breijer*, 8356 ; Marianthall, *Marloth*, 26614 ; Ukualaukalti, *Barnard* (S.A.M. 45950) ; Victoria Falls, *Hφeg 79* ; Chilome, Lower Shire, Zambesi, *Elliott*.
on timber in storage, Johannesburg (T.R.L. 365, 483).

Trametes corrugata (Pers.) Bres.

Nel (1942) 86.
Trametes Persoonii (Fr. ex Cooke) Pat., Hopkins (1938 a) 114.
on **Albizzia amara** Boiv., Durban, *v. d. Byl*, 15623.
Brachystegia Randii Bak., f., Umtali, *Eyles 1729*, 15655.
on dead wood, Maritzburg, *Rump 359* (v. d. Byl 2602) 30165 ; Krantzkop, *Rump 449*, 30230 ; Rooikopjes, *Read* (T.R.L. 204) 28968 ; South coast of Natal, *Rump*, (v. d. Byl 2260).

Trametes devexa Berk.

Nel (1942) 86.
on **Pyrus malus** Linn., Wolhuter's Kop. *Pole Evans*, 12305.
Rhus viminalis Vahl., Brander's High Forest, *v. d. Byl*, 15582.
on dead wood, Verulam, *v. d. Byl*, 11254 ; Durban, *v. d. Byl 104, 558, 751*.

Trametes fibrosa Fr.

Torrend (1905) 219.
Moçambique (Torrend).

Trametes gibbosa (Pers. 3x Fr.) Fr.

Nel (1942) 87.
on **Acacia mollissima** Willd., Impolweni, *Rump* (v. d. Byl 2264) Kew.

Trametes glabrescens (Berk.) Fr.

van der Byl (1921 f) 281 ; J. Phillips (1931) 159 ; Nel (1942) 86 ; Simpson & Talbot (1946) 134.
on **Olea laurifolia** Lam., Petrus Brandt, Knysna, *J. Phillips*, 18037.
Podocarpus latifolius R. Br., Knysna, *Doidge*, 17194.
on trees undet., eastern Cape, *Keet*, *v. d. Byl 149*, *290*, 11251, 15581 ; Klerksdorp, *Sr. de Victoria*, 23468 ; Knysna, *Gower*, 20462 ; Deepwalls, *Bottomley*, 30736 ; George, *v. d. Byl 2748* ; Linyati River, near Kazungulu (E. L. Stephens 475) 34556 ; Qudeni Forest, *Simpson & Talbot*, 34987.

Trametes griseo-lilacina v. d. Byl

van der Byl (1921 f) 283, (1922 c) 182 ; Nel (1942) 87 ; Simpson & Talbot (1946) 134.
on **Acacia mollissima** Willd., Mahlabatini, *Gerstner*, 28793.
on railway sleeper, Illovo River, *Hobbs*, 13942 ; Durban, *v. d. Byl 150*, *1060* ; on wood, Maritzburg, *Rump*, 26393, 27533 ; Town Bush Valley, *Rump 247*, *458*, 28309, 28977 ; on wooden fence posts, Qudeni Forest, *Simpson & Talbot*, 34986.

Trametes heteromorpha (Fr.) Lloyd

Stevenson & Cash (1936) 144.
on wood, Maritzburg, *Rump 132*, *203*, 27771, 27778.

Trametes hispida Bagl.

van der Byl (1921 f) 284, (1925 b) 195.
on **Schotia latifolia** Jacq., dead wood, Gxulu Forest, *Keet* (v. d. Byl 145) 11252, 15616, 31589.
on dead wood of trees undet., Knysna, *v. d. Byl* ; Howick, *Leslie* (v. d. Byl 372) 31710 ; without locality, *Duthie 1*, *65*, 31293, 31328.

Trametes hydnoides (Swartz ex Fr.) Fr.

Fries (1848) 9 ; Cheesman (1909) 410.
on **Ficus** sp., thickly imbricate on a fallen log, East Ferry, Victoria Falls, *Cheesman*.
on dead wood, Natal, *Wahlberg*.

Trametes incerta Curr.

on wood, Hluhluwe Game Reserve, *Rump 446*, 30228.

Trametes incondita Fr.

van der Byl (1921 f) 286, (1922 c) 182 ; Nel (1942) 87.
on **Ptaeroxylon obliquum** (Thunb.) Radlk., Harald Forest, *Keet*, 11286, 15639, 15540 ; eastern Cape, *v. d. Byl 148*, *309*.
on dead wood, Brander's High Forest, 15614 ; eastern Cape, *v. d. Byl 286*, *272* ; Durban, *v. d. Byl 806* ; Xumeni Forest, *Morgan & Doidge*, 28934.
on underground mine timber, Johannesburg, *Naudé*, 23354.

Trametes Keetii v. d. Byl

van der Byl (1921 f) 283, (1922 c) 182.
on **Rhus viminalis** Vahl, Katberg Main Forest, *Keet*, 15636.

Trametes lactea Fr.

Kalchbrenner (1881) 56 ; Sacc. Syll. Fung. VI : 340.
Somerset East, *MacOwan 1066* ; Natal, *Medley Wood.*

Trametes lactinea (Berk.) Fr.

Torrend (1905) 219 ; van der Byl (1921 f) 282, (1922 c) 182, Wakefield (1936) 50.
on **Acacia mollissima** Willd., on log, Wolfridge Plantation, *v. d. Byl 47*, 31540.
? **Ficus** sp., Umzimkuzi River, *Hφeg 41.*
Schotia latifolia Jacq., Gxulu Forest, *Keet*, 15579.
on tree undet., Buccleuch, *Doidge*, 9803 ; Xumeni Forest, *Morgan & Doidge*, 30882.
on mine timber, Jubilee Mine, Pilgrim's Rest, *Lurie* (T.R.L. 197) 28837.

Trametes Meyenii (Klotzsch) ? Lloyd

Hopkins (1938 a) 114, (1939 a) 12.
Polystictus Meyenii (Klotzsch) Cooke, Lloyd (1923) 1189 ; Wakefield (1936) 47.
Polystictus obstinatus Cooke, Lloyd (1914) L. 53 : 3.
Trametes obstinatus Cooke, Lloyd (1912 b) L. 39 : 5 ; van der Byl (1921 f) 285, (1922 c) 182, (1925 b) 195 ; J. Phillips (1931) 160 ; Nel (1942) 87.
on **Acacia decurrens** Willd., var. **dealbata** F. v. M., Ixopo, *Pole Evans*, 5184.
Acacia mollissima Willd., Pretoria, *v. d. Byl* ; Hopevale, *T. Morgan*, 33072.
Celtis Kraussiana Bernh., Katberg Main Forest, *Keet* (v. d. Byl 262), 32030 ; Nqadu Forest, *D.F.O.*, 9545.
Citrus Limonia Osbeck, Umtali, *Hopkins* (Rh. 249) Kew.
Citrus sp., Pretoria, *v. d. Byl.*
Ocotea bullata E. Mey., Kruisfontein, *Verwoerd* (Stell. 337).
on wood of trees undet., Maritzburg, *Reynolds* (v. d. Byl 322) 31685, *Rump*, 26402, *v. d. Byl 105*, *Hφeg 136*, Kew ; Xumeni Forest, *Morgan & Doidge*, 30267, 30804 ; Weenen, *Hφeg 129* ; Town Bush Valley, *Hφeg 139*; Scottburgh, *Rump 538*, 33905 ; Stella Bush, *Moonsamy*, 31943 ; Solheim M.S., nr. Eshowe, *Hφeg 9* ; Ngoye Forest, *Haygarth* ; Ginginhlovu, *Haygarth*, 15569 ; Maclear, *v. d. Byl 2755* ; Grahamstown, *Hepburn* (v. d. Byl 65) 31548 ; Bizana, (T.R.L. 293) ; Knysna, *Duthie 37*, 31311, *Duthie* (v. d. Byl 205) 31623 ; Buffelspoort, *Turner*, 30725 ; Mt. Silinda Forest (Rh. 4322) 33124 ; George, *v. d. Byl 719.*

Trametes moesta Kalchbr.

Kalchbrenner (1881) 56 ; Sacc. Syll. Fung. VI : 348 ; van der Byl (1921 f) 284, (1922 c) 182.
on trunks, Murraytown, *Tyson* ; without locality, *Roberts.*

Trametes natalensis Fr.

Fries (1848) 13.
Polyporus natalensis Fr., Kalchbrenner (1881) 54 ; Sacc. Syll. Fung. VI : 142.
on **Eucalyptus** sp., trunk, Inanda, *Medley Wood 217.*
on tree undet., Natal, *Wahlberg*, Type.

Trametes ochrolignea Lloyd

Lloyd (1916 d) L. 63 : 10. Note 456 : van der Byl (1921 f) 285, (1922 c) 182 ; Sacc. Syll. Fung. XXIII : 433 ; Stevenson & Cash (1936) 145 : Nel (1942) 87.

on rotting log, Stella Bush, *v. d. Byl*, 11258, 14025, 15578 : Durban, *v. d. Byl 106* ; Berea, Durban, *v. d. Byl 226* (Lloyd Myc. Coll. 39172).

Trametes pertusa Fr.

Fries (1848) 10.

inland regions of the Cape, *Wahlberg*.

Trametes Proteus (Berk.) Fr.

Fries (1848) 12 : van der Byl (1921 f) 282, (1922 c) 182, (1922 d) 286, (1925 b) 193 : J. Phillips (1931) 159 ; Wakefield (1936) 50 ; Nel (1942) 88.

Polyporus Proteus Berkeley (1843) 514 : Montagne (1847) 168 ; Verwoerd (1929 b) 6 ; Doidge & Bottomley (1931) 9 ; Nel (1942) 82.

Polystictus Proteus (Berk.) Cooke (1886) 82 : Sacc. Syll Fung. VI : 250.

Polyporus Proteus var. *imbricatus* Berkeley (1843) 515.

on **Acacia mollissima** Willd., Town Bush Valley, *Rump 115*, 27763 ; Krantzkloof, *v. d. Byl 492*.

Curtisea faginea Ait., Knysna, *J. Phillips*.

Eucalyptus spp., Belvidere, Knysna, *Duthie 177*, 31384 : Pretoria, *Hoeg 60*, Kew ; Maritzburg, *Hoeg 95*, Kew : Mazoe, *Bates*, 33131 ; Stellenbosch, Verwoerd (Stell. 45).

Ficus sp., Durban, *Casey*, 27684.

Melia Azedarach Linn., Maritzburg, *Rump 494*, 30835.

Populus sp., Klapmuts, *v. d. Byl 576, 717, 413*, 31732.

Pinus sp., Klapmuts, *v. d. Byl 553*.

Prunus Armeniaca Linn., Wellington, *Verwoerd, Putterill*, 14533.

Quercus sp., Maritzburg, *Rump 561, 571*, 35317, 35321.

Rhus viminalis Vahl, Katberg Main Forest, *Keet*, 11287.

Schinus molle Linn., Bloemfontein, *v. Hoepen* (v. d. Byl 2368).

on dead wood, in bush, Durban, *Drège 9422* ; " Osamwubo ", in bush near river, *Drège 9426 b* ; on rotten wood near Uitenhage, *Zeyher* : Natal, *Wahlberg* : Maritzburg, *Rump*, 27650 : Stella Bush, *v. d. Byl 821*, 31944 ; Bluff, Durban, *v. d. Byl 339*, 31694 ; Knysna, *Duthie 271*, 31445, *v. d. Byl 717* ; Kirstenbosch, *Middlemost*, 24858 : Stellenbosch, *v. d. Byl 304, Duthie*, 15637, 31616, 31513 : Paarl, *v. d. Byl 531* : Fountains Valley, *L. C Turner*, 8814 : Port Elizabeth, *Doidge*, 1339 : Johannesburg, 30834 and *v. d. Byl 2754* ; Pretoria, *v. d. Byl 103, 137*, 11281 : Umfolosi, *v. d. Byl* : Ngoye Forest, *Haygarth* ; Zululand, *v. d. Byl 48, 107, 819 a* ; Ennersdale, *Hφeg 121*, Kew ; Solheim M.S., nr. Eshowe, *Hφeg 168*, Kew : Eshowe, *Hφeg 24* ; Lobatsi, *v. d. Byl 819* : Victoria Falls, *v. d. Byl 786* ; without locality (comm. Lloyd) Kew.

on timber in storage, Exchange Yards, Johannesburg, *Bowen* (T.R.L. 362).

Trametes rigida Berk. & Mount.

Kalchbrenner & Cooke (1881) 27, as *Trametes rigidus*.

on a fallen tree, Inanda, *Medley Wood 496*, Kew ; Shiri Highlands, Kew.

Trametes robiniophila Murr.

van der Byl (1922 c) 182.

Polyporus robiniophila (Murr.) Lloyd (1916 d) L. 63 : 10 ; van der Byl (1921 f) 262 ; Stevenson & Cash (1936) 118.

on dead wood, Durban, *v. d. Byl*, 27698 ; Nkandhla, *Rump 377*, 30188 ; Maritzburg, *Rump 58*, 27683.

Trametes roseola Pat. & Har.

Hopkins (1938 a) 114, (1939 c) 592, (1943) 188.
on **Acacia mollissima** Willd., Impolweni, *Rump 170*, 28560 ; Melmoth, *Rump 382*, *403*, 30191, 30204.
Eucalyptus ficifolia F. Muell., Maritzburg, *Rump*, 27609, Kew.
Prunus persica Sieb. & Zucc., Cashel, *Hopkins*, (Rh. 3441) 30634.
on dead wood, Albert Falls, *Ledeboer*, 34116.

Trametes salebrosa v. d. Byl

van der Byl (1924 b) 313 ; Nel (1942) 88.
Knysna, *v. d. Byl 1063*.

Trametes scalaris Fr.

Fries (1848) 12 ; Kalchbrenner (1881) 54 ; Sacc. Syll. Fung. VI : 350.
Natal, *Wahlberg*, Type ; Bazuja, *Baur* (MacOwan 694).

Trametes Sceleton Fr.

Fries (1848) 14 ; Sacc. Syll. Fung. VI : 353.
on trunks, Natal, *Wahlberg*, Type.

Trametes scleroderma Fr.

Fries (1848) 15 ; Sacc. Syll. Fung. VI : 354.
on trunks, Natal, *Wahlberg*, Type.

Trametes sepium Berk.

Kalchbrenner (1881) 56 ; van der Byl (1924 b) 313, (1922 c) 182 ; Nel (1942) 88.
on decaying wood, Somerset East, *MacOwan* ; Burghersdorp, *v. d. Byl 476*.

Trametes serialis Fr.

on Oregon pine timber in storage, Johannesburg, (T.R.L. 212, 884, 1630).

Trametes serpens Fr.

on wood, Compensation Beach, *Rump 405*, 30205 ; ? Hlabini Forest, *Morgan & Doidge*, 28961 ; Town Bush, *Rump 624*, 34370.

Trametes suaveolens (Linn. ex Fr.) Fr.

MacOwan (1895) 331.
on **Celtis Kraussiana** Bernh., on living bark, Klein Vis Rivier nr. Somerset East, *MacOwan 1065*, Kew.
Gymnosporia sp., on dying trees, Boschberg, *MacOwan*.
Quercus sp., Cape, *MacOwan*.
Rhus sp., dying trees, Boschberg, *MacOwan*.

Trametes subflava Lloyd

Lloyd (1917 a) L. 66 : 8, Note 585 ; van der Byl (1921 f) 284 ; Stevenson & Cash (1936) 147 ; Nel (1942) 88.
on **Celtis Kraussiana** Bernh., on living tree, eastern Cape, *Keet* (v. d. Byl 267).
on wood, ? Durban, *v. d. Byl 79*, *388* (Lloyd Myc. Coll. 13245, 13340), 31722.

Trametes Sycomori P. Henn.

Lloyd (1916 d) L. 63 : 2. 10. Note 460 : van der Byl (1921 f) 282, (1922 c) 182.
on **Polyporus** sp., Rhenosterbosch, Marico Distr., *Weintroub* (T.R.L. 311) 29968.
on dead wood, Tugela, *Moonsamy*, 11285, 15577 : Stella Bush, *Leslie*, 31958 ; Rhenosterhoek (T.R.L. 311, 318) : Maritzburg, *Rump 668*, 33989.

Trametes tomentosa v. d. Byl

van der Byl (1921 f) 285, (1922 c) 182 ; Nel (1942) 88.
on dead logs, Durban, *v. d. Byl 151, 797, 836*, 14036.

Trametes torrida Fr.

Kalchbrenner (1881) 56.
Somerset East, *MacOwan 1425*.

Trametes trabea (Pers. ex Fr.) Bres.

Lloyd (1917 c) 748 : van der Byl (1922 d) 286 : Wakefield (1936) 50 : Nel (1942) 88.
Lenzites trabea (Pers.) Fr., van der Byl (1921 f) 288, (1922 c) 180, Nel (1942) 77.
on **Acacia decurrens** Willd., Dalton Road Bridge, *Hφeg 154*, Kew.
Pinus sp., on logs, Klapmuts, *v. d. Byl 917* : common in south-west Cape, *v. d. Byl*.
Populus sp., common in south-west Cape, *v. d. Byl*.
on wood of trees undet., Stellenbosch, *Duthie 36, 84, 120, 170*, 31310, 31341, 31379 and *v. d. Byl* : Klapmuts, *v. d. Byl 918* ; Jonkershoek, *Duthie 246*, 31426 ; Greytown, *Rump* (v. d. Byl 2735) Kew.
on mine timbers, Robinson Deep, *Brown* (T.R.L. 34).

Trametes umbrina Fr.

Fries (1848) 13 ; Sacc. Syll. Fung. VI : 350.
on trunks, Natal, *Wahlberg*, Type.

Trametes ursina (Link ex Fr.) Fr.

Fries (1848) 9.
Polystictus ursinus (Link ex Fr.) Cooke, Sacc. Syll. Fung. VI : 236.
on trunks, Natal, *Wahlberg*.

Trametes varians v. d. Byl

van der Byl (1921 f) 281 ; Nel (1942) 89.
eastern Cape, *v. d. Byl 527*, 14027 ; ? Town Bush, *Rump 499*, 31087.

Trametes violacea Lloyd

Lloyd (1915 d) 342 : van der Byl (1921 f) 283, (1922 c) 182 : Sacc. Syll. Fung. XXIII : 438 : Wakefield (1936) 50 ; Stevenson & Cash (1936) 148 ; Nel (1942) 89.
on **Acacia decurrens** Willd., Natal Tanning Extract Co., *Weintroub*, Kew.
on logs, Natal, *Janse* (Lloyd Myc. Coll. 13105) : Maritzburg, *v. d. Byl 109*, 14035, Kew : Impolweni, *Rump* (Hφeg 13, 90) Kew : Bulwer, *Rump 27*, 27610 ; Maritzburg, *Rump*, 27641 : Town Hill, Maritzburg, *Rump*, 27625 : Sevenoaks, (T.R.L. 321) ; without locality, v. d. Byl 696 (Lloyd Myc. Coll., 53399).
Hφeg 13 and *90* (fide Wakefield) are apparently thick forms of *Polystictus vinosus*.

Trametes Wahlbergii Fr.

Fries (1848) 11 ; Sacc. Syll. Fung. VI : 350 ; Lloyd (1917 a) L. 66 : 11, Note 630.
on trunks, Natal, *Wahlberg*.

Trametes Zimmermannii Bres.

Lloyd (1920) 952 ; van der Byl (1921 f) 286, (1922 c) 182.
on wood of tree undet., Maritzburg, *v. d. Byl*, 14019 ; without locality, *v. d. Byl 219*, 15580.

FISTULINOIDEAE.

Fistulina africana v. d. Byl

van der Byl (1928 b) 187 ; Nel (1942) 73.
on **Platylophus trifoliatus** Don., on living trunks, Knysna, *J. Phillips* (v. d. Byl 2320), Type, *Laughton*, (v. d. Byl 2504) and *v. d. Byl 2538*.

Theleporus cretaceus Fr.

Fries (1848) 18 ; Sacc. Syll. Fung. VI : 421 ; Lloyd (1910 d) 479.
in forest, Natal, *Wahlberg*, Type.

BOLETOIDEAE.

Boletus bovinus Linn. ex Fr.

Lloyd (1920) 1010 ; Hopkins (1938a) 111 ; J. Phillips (1931) 160 ; Nel (1942) 71.
under ground, usually under pine trees. Stellenbosch, *v. d. Byl 1148* ; Elgin Plantation, *D.F.O.*, 12307 ; Pinelands, *Lansdell*, 24363 ; George, *V. A. Putterill*, 15481 ; Salisbury, *Eyles 2520*, 14857 ; Knysna, *J. Phillips*.

Boletus collinitus Fr.

under pine trees, Papegaaisberg, *Garside*, Kew ; Signal Hill, *V. A. Putterill*, 15494.

Boletus curtipes Mass.

Massee (1908) 216.
on the ground, South African College, Cape Town, *Saxton*, Kew.

Boletus edulis Bull., ex Fr.

Marloth (1913) 23 ; van der Byl (1922 d) 286 ; Verwoerd (1931 a) 300 ; Nel (1942) 71.
amongst oak trees, near Wynberg, *MacOwan 1460* (S.A.M.) ; foot of Table Mt., *MacOwan*, Kew ; under pine trees, slopes of Bootmans Kop, *Garside*, Kew ; between trees of *Acacia Karroo*, Bloemfontein, *Verwoerd*.
on ground, Stellenbosch, *v. d. Byl 1158* ; Klapmuts, *v. d. Byl 607* ; Pretoria Distr., *Turner*, 23688 ; Garstfontein, *Pienaar*, 6607 ; Bishop's Court, Cape Town, *Macintosh*, 24828.

Boletus eximius Peack

Hopkins (1938 a) 111.
on ground, Salisbury, *Eyles 2520, 2527*, 14860.

Boletus flavidus Fr.

Kalchbrenner (1881) 53.
on soil, Durban, *Medley Wood 329*, 10186.

Boletus granulatus Linn.

under pine trees, Meintjes Kop, 23673 ; Govt. House grounds, Pretoria, *Mogg*, 23177, 23225 : Fairy Glen Road, *Doidge*, 30596 ; Keurboom Park near Rondebosch, *Lansdell*, 24837 ; Wonderboom, *Reinecke*, 23879.

Boletus Grevillei Klotzsch

Boletus elegans Fr., Hopkins (1938 a) 111.

on ground, Somerset East, *MacOwan 1188 b*, Kew ; Pretoria, *Punt*, 14508 ; Salisbury, *Eyles 2518*, 14858 ; ? Steenbras, *D.F.O.*, 12176.

Boletus luteus Linn.

under pine trees, Bloemfontein, *Potts*, 12970, 13004 ; near Johannesburg (T.R.L. 511).

Boletus stellenbossiensis v. d. Byl

van der Byl (1925 a) 167 ; Nel (1942) 72.

on ground, Stellenbosch, *v. d. Byl 2076* ; in pine woods, Klapmuts, *v. d. Byl 508* ; Stellenbosch, *v. d. Byl 815* ; between Stellenbosch and Somerset West. *v. d. Byl 2078*.

Boletus subflammeus Berk.

Berkeley (1876 a) 174.

amongst dead leaves, foot of Table Mt., *Eaton*.

Boletus sp.

Medley Wood (1898) 17.

on soil, Natal, *Medley Wood 691*, 10187.

Campbellia africana Cooke & Mass.

Cooke (1890 a) 87 ; Medley Wood (1898) 17 ; Sacc. Syll. Fung. IX : 205.

on ground in shade, in Botanical Garden, Durban, *Medley Wood 826, 4107*, Kew.

Doubtful genus.

Gyrodon capensis Sacc.

Saccardo, (1896) 68, Syll. Fung. XIV : 170.

Phlebopus capensis (Sacc.) Singer (1945) 250.

on ground, Cape and Natal.

AGARICACEAE.

Leucosporae.

Amanita mappa (Batsch ex Fr.) Quél.

in a sandy pit, Kloof Road, Cape Town, *E. P. Phillips 282*, Kew.

Amanita muscaria (Linn. ex. Fr.) S. F. Gray.

Saccardo, Syll. Fung. V : 13 ; Marloth (1913) 23 ; van der Byl (1922 d) 286 ; E. P. Phillips (1908) 369 ; Verwoerd (1931 a) 300 ; Watt & Breijer-Brandwyk (1932) 214.

Agaricus muscarius Linn., Thunberg (1800) 181, (1923) 754.

Agaricus (*Amanita*) *muscarius* Linn. ex Fr., Berkeley (1876 a) 173 ; Kalchbrenner (1880 b) 107.

amongst shrubs, near Cape Town, *Thunberg*.
under pine trees, near Wynberg, *MacOwan 1446*, Kew ; Cape Flats, near Rondebosch, *Eaton*, Kew ; Cape Town, *MacOwan*, Kew ; path above Kirstenbosch, *Garabedian*, (S.A.M. 45898) ; Kloof Road, Cape Town, *E.P. Phillips* (S.A.M. 1318) ; Pinelands, *Lansdell*, 24834 ; Stellenbosch, *Loseby*, 24377; Camps Bay, *Letty*, 26641 ; Belfast, *Lewis*, 24957, 23880 ; Bulwer, *Morgan*, 32081 ; Nottingham Road, *Gill*, 28608 ; Mbabane, *Butler*, 28265 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *Duthie*.
near living roots of Quercus sp., Vereeniging, *Brandmuller*, 23881, 25330.

Amanita pantherina (DC ex Fr.) Quél.

Watt & Breijer-Brandwyk (1932) 214.
near Oak trees, Stellenbosch, *Garside*, Kew.
under Pine trees, Camps Bay, *Ward Cox* (S.A.M. 36178) : Maritzburg, *Pole Evans*, 1360, 1362 ; Wellington, *Bottomley*, 1550 ; Grahamstown, *Dyer*, 23230 ; Signal Hill, Cape Town, *V. A. Putterill*, 15493; Newlands, *Lansdell*, 24850; Krugersdorp, *Head Constable* (poisoning case).
under Eucalyptus, Pretoria, *Doidge*, 30562.

Amanita phalloides (Vaill. ex Fr.) Secretan

E. P. Phillips (1908) 368 ; Marloth (1913) 21 ; van der Byl (1922 d) 286 ; Watt & Breijer-Brandwyk (1932) 214 ; Nel (1942) 6.
under oak trees, Stellenbosch, *Garside*, Kew ; Oranjezicht, *Bottomley*, 24373.
on ground, without locality, *Saxton* (S.A.M. 1321), *Maberley* (S.A.M. 1317) ; Table Mt. (S.A.M. 34522) ; Harrismith, M.O.H., 20314 ; Cape Town, *Marloth*, 22008; Stellenbosch, *Duthie* (v. d. Byl 1126).

Amanita rubescens (Pers. ex Fr.) S. F. Gray.

amongst fir trees, Newlands, *Marloth*, 22009 ; Constantia, *Marloth*.
under oak trees, Kirstenbosch and Westbrook, *E. L. Stephens*, 24367.

Amanita solitaria (Bull. ex Fr.) Secretan

on ground, Garstfontein, *Pienaar*, 2115 ; Pretoria, *C. E. Gray*, 12816.
under wattles, Klapperkop, *King*, 30603.

Amanitopsis praetoria (Fr.) Sacc.

Saccardo, Syll. Fung. V : 21.
Agaricus (*Amanita*) *praetorius* Fries (1848) 122.
Zwartkops River, *Zeyher*.

Armillaria mellea (Vahl. ex Fr.) Quél.

MacOwan (1891) 169 ; Doidge & Bottomley (1931) 23 ; Bottomley (1937) 373 ; Wickens (1937) 690 ; Hopkins (1938 a) 114, (1939 a) 11, 16, 19, 35, 39, 45, (1943) 183.
on **Araucaria braziliana** A. Rich., Entabene, *Bottomley*.
Cedrela odorata Linn., Klein Australië, Louis Trichardt, *Bottomley*, 25995.
Cedrela Toona Roxb., Klein Australië, *D.F.O.*, 26156.
Citrus sinensis Osbeck, Marandellas, *Hopkins*.
Cupressus lusitanica Mill., Salisbury (Rh. 1548).
Delonix regia Raf., Entabeni, *Bottomley*.
Eriobotrya japonica Lindl., Cape, *Geisler* (MacOwan) ; Marandellas, *Hopkins*.
Eucalyptus paniculata Sm., Middelkop, Tzaneen, *D.F.O.*, 28683.

Grevillea robusta Cunn., Entabene, *Bottomley*.
Juniperus procera Hochst., Klein Australië, *D.F.O.*, 26080, 26154.
Lachnopylis sp., Entabene, *Bottomley*.
Melia dubia Cav., Entabene, *Bottomley*.
Musa sp., Stentor, Kaapmuiden, *Kresfelder*.
Parinarium Mobola Oliv., Klein Australië, *D.F.O.*, 26155.
Pinus caribaea Morelet, Entabene, *Bottomley*, 26639.
Pinus longifolia Roxb., Klein Australië, *D.F.O.*, 26408, 25994, 26575 ; Louis Trichardt, *D.F.O.*, 28682.
Pinus palustris Mill., Port Durnford, *D.F.O.*, 28740.
Pinus pinaster Ait., Imperani Plantation, Ficksburg, *D.F.O.*, 27350.
Prunus Armeniaca Linn., Umtali (Rh. 3103) ; Marandellas (Rh. 3504).
Prunus Avium Linn., Marandellas (Rh. 3144) ; Umtali (Rh. 3103).
Prunus persica Sieb. & Zucc., Cape Town, *Hopkins*, 20667 ; Wynberg, *Mally*, 21934.
Prunus salicina Lindl., Umtali (Rh. 3071, 3103).
Prunus sp., Umtali (Rh. 3073).
Pyrus malus Linn., Umtali (Rh. 3072).
Quercus sp., Cape, *Geisler* (MacOwan).
Syncarpia glomulifera Med., Entabene, *Bottomley*.
Syzygium Gerrardi (Harv.) Hochst., Entabene, *F.D.O.*, 26604.
Thea sinensis Linn., Umtali (Rh. 2749).
Trichilia sp., Cape Town, *MacOwan*.

on decaying wood of trees undet., Cape Town, *MacOwan 1450*, 20938. on decaying tree trunks, foot of Table Mt., Kew ; on old posts, Rosebank, *v. d. Merwe*, 9547.

Armillaria ramentacea (Bull. ex Fr.) Quél.

? near cow dung, Bloemfontein, *Potts*, 12975.

Cantharellus capensis Berk.

Berkeley (1844) 187 ; Medley Wood (1898) 17 ; Sacc. Syll. Fung. V : 497.

on decayed stalks of herbaceous plants, Table Mt., *Harvey*, Kew ; Inanda, *Medley Wood 513*, 10181, Kew.

Cantharellus cinnabarinus Schw.

on ground, Salisbury, *Hopkins* (Rh. 4407) 30529.

Cantharellus Foliolum Kalchbr.

Kalchbrenner (1880 b) 134 ; Sacc., Syll. Fung. V : 498.

on dry branches, Somerset, East, *MacOwan*.

Cantharellus leucophaeus Nouel

Medley Wood (1897) 17.

on ground in shade, Natal, *Medley Wood 675*, 10182, Kew.

Clitocybe expallens (Pers. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 177.
Agaricus (*Clitocybe*) *expallens* Pers. ex Fr., Kalchbrenner (1880 b) 110.

on ground in bush, Inanda, *Medley Wood 395*, 10246 ; amongst decaying leaves under shrubs, Boschberg, *MacOwan & Tuck* (MacOwan 1217).

Clitocybe fragrans (Sow. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 188.
Agaricus (*Clitocybe*) *fragrans* Sow. ex Fr., von Thuemen (1877 a) 407.
amongst decaying leaves, Boschberg, *MacOwan 1210* (Thuem. Myc. univ. 903) 20947.

Clitocybe gentianea Quél.

Agaricus (*Clitocybe*) *gentianeus* Quél., von Thuemen (1876 b) 423.
Boschberg, near Somerset East, *MacOwan 1013 b*, 20942.

Clitocybe infundibuliformis (Schaeff. ex Fr.) Quél. var. **membranacea** (Fr.) Gill.

Agaricus (*Clitocybe*) *membranaceus* Fr., Kalchbrenner (1880 b) 110.
Clitocybe membranacea Fr., Sacc. Syll. Fung. V : 166.
Bazuja, *Baur*, Kew.

Clitocybe sinopica (Fr.) Gill.

Saccardo, Syll. Fung. V : 167.
Agaricus (*Clitocybe*) *sinopicus* Fr., Cooke (1879) 69 ; Kalchbrenner (1880 b) 109.
Natal, *Medley Wood 395 ;* Somerset East, *MacOwan 1371.*

Clitocybe splendens (Pers. ex Fr.) Gill.

Saccardo, Syll. Fung. V : 172.
Agaricus (*Clitocybe*) *splendens* Pers. ex. Fr., Kalchbrenner (1880 b) 110.
Boschberg, *MacOwan 1201*, 22038.

Clitocybe trullaeformis (Fr.) Karst.

Saccardo, Syll. Fung. V : 167.
Agaricus (*Clitocybe*) *trullaeformis* Fr., Kalchbrenner (1880 b) 109.
Somerset East, *MacOwan 1249*, Kew.

Clitocybe zizyphina (Viv.) Sacc.

Saccardo, Syll. Fung. V : 173.
Agaricus (*Clitocybe*) *zizyphinus* Viv., von Thuemen (1878 a) 353.
on trunks of trees, Boschberg, *MacOwan 1216* (S.A.M. 34882).

Collybia acervata (Fr.) Gill.

Saccardo, Syll. Fung. V : 234.
Agaricus (*Collybia*) *acervatus* Fr., Kalchbrenner (1880 b) 110.
on twigs in bush, Boschberg, *MacOwan 1187* (S.A.M. 34798) 22039.

Collybia albuminosa (Berk.) Petch.

Volvaria eurhiza (Berk. & Br.) Petch
on nest of **Odontotermes badius** Hav., de Wildt, *Fuller*, 18018.
on termite nests, South-West Africa, *Schoenfelder*, 27811 ; Pretoria, *Lansdell*, 28667 ; Estcourt, *Scott*, 28810.

Collybia alveolata (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 202.
Agaricus (*Collybia*) *alveolatus* Kalchbrenner (1880 b) 110.
Somerset East, *MacOwan*, Kew.

Collybia butyracea (Bull. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 209.

Agaricus (*Collybia*) *butyraceus* Bull. ex Fr., Kalchbrenner (1880 b) 110.

amongst grass, Bester's Hoek, near Somerset East, *MacOwan 1365* (S.A.M. 34805) ; on ground under pine trees, Pretoria, *Louwrens*, 30546, 30547, *Fischer*, 30545 ; on ground under poplars, de Beer's Rust, *Doidge*, 30627.

Collybia chortophila (Berk.) Sacc.

Saccardo Syll. Fung. V : 218.

Agaricus (*Collybia*) *chortophilus* Berkeley (1843 b) 509 ; Kalchbrenner (1880 b) 111.

on haulms of dead grasses in open bush, Somerset East, *MacOwan 1359* (Rabenh. Fung. Eur. 4439) Kew ; Durban, *Medley Wood 121 ;* Uitenhage, *Zeyher 108*, Kew.

Collybia dryophila (Bull. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 234.

Agaricus (*Collybia*) *dryophilus* Bull. ex. Fr., Cooke (1880) 14 ; Kalchbrenner (1880 b) 111 ; Cooke & Kalchbrenner (1881) 27.

on ground, Inanda, *Medley Wood 434*, 10271, 11184, Kew ; Durban, *Medley Wood 349*, 10261 and *Medley Wood 121, 192, 401 ;* Natal, *Medley Wood 548*, 10633 ; Boschberg, *MacOwan 1165* (S.A.M. 34824) Kew ; Boschberg, *Tuck* & *MacOwan*, (MacOwan 1157 ; S.A.M. 34825) 22040 and *MacOwan 1187, 1189 ;* Uitenhage, *MacOwan 1210*, Kew ; Xumeni Forest, *Doidge*.

Var. **oedipus** Quél.

Agaricus (*Mycena*) *galeropsis* Fr., Kalchbrenner (1880 b) 111.

on wooden posts, Somerset East, *MacOwan 1207*.

Collybia extuberans (Fr.) Quél.

Saccardo, Syll. Fung. V : 237.

Agaricus (*Collybia*) *extuberans* Fr., Kalchbrenner (1880 b) 111 ; Cooke & Kalchbrenner (1881) 27.

on ground and on wood in bush, Inanda, *Medley Wood 485*, 10236, 11218, Kew ; Natal, *Medley Wood 354*, 10263 ; Pretoria, *Parkes*, 21202.

Collybia fusipes (Bull. ex Fr.) Quél. var. **contorta** Gill. & Lucand

amongst leaves under bushes, Boschberg, *MacOwan 1187, 1189* (S.A.M. 34801) ; Natal, *Medley Wood 461*, 10225.

Collybia homotricha (Berk.) Sacc.

Saccardo, Syll. Fung. V : 217.

Agaricus (*Collybia*) *homotrichus* Berkeley (1843 b) 510, (1847) 484.

on hard stems of decayed grasses, Uitenhage, *Zeyher 111*.

Collybia macilenta (Fr.) Gill.

Agaricus (*Collybia*) *macilentus* Fr., Cooke (1879) 69.

on ground, Inanda, *Medley Wood 401*, 10248, Kew.

Collybia melinosarca (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 213.

Agaricus (*Collybia*) *melinosarcus* Kalchbr., von Thuemen (1876 b) 423; Kalchbrenner (1880 b) 110.

in bush, Boschberg, MacOwan 1013 (S.A.M. 34835) Kew.

Collybia radicata (Relh. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 200.

Agaricus (*Collybia*) *radicatus* Relh. ex Fr., Kalchbrenner (1880 b) 110.

on ground in bush, Boschberg, *MacOwan 1245* (err. 1254 in Kalchbr. l.c.) (S.A.M. 34800) 22041, Kew ; Meintjies Kop, *Bottomley*, 20680 ; Fountains, *Bottomley*, 14519 ; Pretoria, *Doidge*, 30561.

Var. **brachypus** (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 201 (as var. brachypoda).

Agaricus (*Collybia*) *radicatus* var. *brachypus* Kalchbrenner (1881) 52.

Somerset East, *MacOwan 1424*.

Collybia ratticauda Fayod

Fayod (1890) 228 ; Saccardo, Syll. Fung. XI : 18.

on ground, ? on roots of trees, near Olukonda, *Schinz*.

Collybia stipulincola Kalchbr.

? nom nud.

on grass roots, at foot of Boschberg, *MacOwan 1359*, Kew.

Collybia stridula (Fr.) Quél.

Saccardo, Syll. Fung. V : 210.

Agaricus (*Collybia*) *stridulus* Fr., Kalchbrenner (1880 b) 110.

among dead leaves in bush, Boschberg, *MacOwan 1160* (S.A.M. 34806) 22042, Kew.

Collybia velutipes (Curt. ex Fr.) Quél.

Agaricus (*Collybia*) *velutipes* Fr., Cooke & Kalchbrenner (1881) 27.

on old wood in bush, Inanda, *Medley Wood 486*, 10237, 11217, Kew ; Schwarzwald Forest *Keet*, 9151.

Collybia sp.

Cheesman (1909) 409.

Groot Schuur, Rondebosch, *Cheesman*.

Hygrophorus atro-coccineus Kalchbr.

Kalchbrenner (1880 b) 134 ; Saccardo, Syll. Fung. V : 412.

on ground in bush, Durban, *Medley Wood 364*.

Hygrophorus coccineus (Schaeff. ex Fr.) Fr.

Cooke & Kalchbrenner (1881) 27.

on trees in bush, Inanda, *Medley Wood 510*, 10394, Kew.

Hygrophorus conicus (Scop, ex Fr.) Fr.

on ground, amongst grass, Pretoria, *Fischer*, 30613 ; Pretoria, *Goldblatt*, 18127, *Punt*, 20374 *King*, 30584.

Hygrophorus discolor Kalchbr. & MacOwan

Kalchbrenner (1880 b) 134 ; Saccardo, Syll. Fung. V : 418.

in grassy places after rain, Somerset East, *MacOwan 1231* (S.A.M. 34567) 22046 Kew.

Hygrophorus virgineus (Wulf ex Fr.) Fr.

Kalchbrenner (1880 b) 134 ; Saccardo, Syll. Fung. V : 402.
in grassy places, Somerset East, *MacOwan 1364* (S.A.M. 34560).

Laccaria laccata (Scop. ex Fr.) Berk. & Br.

Nel (1942) 62.
Agaricus (*Clitocybe*) *laccata* Scop. ex. Fr., Berkeley (1844) 186, (1876 a) 173 ; Kalchbrenner (1880 b) 110.
Cape, *Harvey ;* on burnt earth, Groot Schuur, *Eaton ;* amongst pine needles in woods, near Wynberg, *MacOwan 1453*, Kew ; Somerset East, *MacOwan 1359 b ;* Brooklyn, Pretoria, *Doidge*, 30573 ; Haenertsburg, *Thomson* (T.R.L. 284), 29875 ; in humus, Kirstenbosch, *E. L. Stephens*, 24827 ; Donnybrook, *Morgan*, 28543 ; Bulwer, *Rump*, 27621 ; Stellenbosch, *v. d. Byl 1163 ;* under wattles, Klapperkop, *King*, 30588.

Lactarius deliciosus (Linn. ex Fr.) S. F. Gray

Nel (1942) 62.
in pine woods, Cape Town, *Marloth*, 22011 ; Newlands, *E. L. Stephens*, 24832 ; Keurboom Park, near Rosebank, *Lansdell*, 24833 ; Kirstenbosch, *Bottomley*, 24368 ; lower slopes of Bootman's Kop, near Stellenbosch, *Garside*, Kew.

Lactarius piperatus (Scop. ex Fr.) S. F. Gray

on damp soil and in humus, Fountains, *Bottomley & Lansdell*, 28583 ; Krugersdorp Distr., *J. Phillips*, 33560.

Lactarius scrobiculatus (Scop. ex. Fr.) Fr.

Nel (1942) 92.
near Lobatsi, *Breach* (Duthie 330) ; Knysna, *v. d. Byl 1099*.

Lentinus albidus Berk.

Berkeley (1843 c) 634.
Cape of Good Hope.

Lentinus cirrosus Fr.

van der Byl (1924 c) 5 ; Hopkins (1938 a) 116 ; Nel (1942) 62.
on dead stumps and branches, Durban, *v. d. Byl 155 ;* Maritzburg, *v. d. Byl 153, 609 ;* Howick, *Leslie* (v. d. Byl 331); Eshowe, *v. d. Byl 515;* Hunyani, *Eyles 7151*, Kew ; Natal, *v. d. Byl 546*.

Lentinus dactyliophorus Lév.

on **Olea laurifolia** Lam., dead wood, Johannesburg, *Blackburn* (T.R.L. 1458) 33259.

Lentinus fastuosus Kalchbr. & MacOwan

Kalchbrenner (1880 b) 135 ; Sacc. Syll. Fung. V : 578; van der Byl (1924 c) 5.
sub *Lentinus velutinus* Fr., Pilát (1936) 116.
on dead wood, Somerset East, *MacOwan 1133, 1333* (S.A.M. 34618) 22053, Kew, Berlin.
According to Pilát, l.c., the specimen in the Berlin Herbarium is a young specimen of *Lentinus velutinus*.

Lentinus flabelliformis (Bolt. ex Fr.) Fr.

on **Hibiscus** sp., Isipingo, *v. d. Byl*, 9563.

Lentinus hyracinus Kalchbr.

Kalchbrenner (1880 b) 136 ; Saccardo, Syll. Fung. V : 608 ; Pilát (1936) 118.
Somerset East, *MacOwan*, Berlin ; ? Kloof Neck, *Lansdell.*

Lentinus Lecomtei Fr.

von Thuemen (1876 b) 362 ; Kalchbrenner (1880 b) 135 ; Sacc. Syll. Fung. V : 572 ; van der Byl (1924 c) 6, (1925 b) 195 ; J. Phillips (1931) 161 ; Nel (1942) 62.
sub *Pleurotus rudis* (Fr.) Pilát (1936) 120.
on dying trunks, Boschberg, *MacOwan 1043* (Thuem. Myc. Univ. 603 b ; S.A.M. 34615) 22051, Kew, Berlin.
on burnt wood, Belvidere, Knysna, *Duthie 54 a* (v. d. Byl 1087, 1304) 31319.
According to Pilát, l.c., MacOwan's collection is *Pleurotis rudis* (Fr.) Pilát.

Lentinus lepideus Fr.

Medley Wood (1898) 18 ; van der Byl (1922 d) 286, (1924 c) 4 ; Brown (1937) 388 ; Nel (1942) 62.
on ground in conservatory, Durban, *Medley Wood 4241.*
on underground mine timbers, central and east Rand ; Geduld Mine, *Lurie 12*, (T.R.L. 87) 28840, Kew ; Otavi copper mine, *Borchards*, 9806 ; Robinson Deep, *Lurie* (T.R.L. 40) ; Randfontein Estates (T.R.L. 598) ; Durban Roodepoort Deep (T.R.L. 891) ; Rose Deep (T.R.L. 1126) ; Sub-Nigel (T.R.L. 1819).
on stump of **Pinus,** Klapmuts *v. d. Byl 651, 909.*
on pitch pine in storage, Exchange Yard, Johannesburg (T.R.L. 479, 1899).
on beam of leaking roof, Rondebosch, *E. L. Stephens 149*, 34496.

Lentinus miserculus Kalchbr.

Kalchbrenner (1880 b) 136 ; Saccardo, Syll. Fung. V : 583 ; Pilát (1936) 123.
Somerset East, *MacOwan 1296*, Kew, Berlin.

Lentinus Murrayi Kalchbr. & MacOwan

Kalchbrenner (1880 b) 136 ; Saccardo, Syll. Fung. V : 599..
Lentinus Sajor Caju Fr. var. *typicus* Pilát (1936) 123.
on stems, near banks of Buffalo River, East London, *Murray* (MacOwan 1297) 22054, Kew, Berlin ; Natal, *Pole Evans*, 5630.

Lentinus natalensis v. d. Byl

van der Byl (1924 c) 4 ; Nel (1942) 62.
on dead stump, Winkle Spruit, *v. d. Byl 648.*

Lentinus nigripes Fr.

Maritzburg, *J. M. Sim*, 8798.

Lentinus Phillipsii v. d. Byl

van der Byl (1926 b) 284 ; Nel (1942) 62.
on old wood, Knysna, *J. Phillips* (v. d. Byl 2240).

Lentinus Sajor-caju Fr.

van der Byl (1924 c) 3, (1925 b) 195 ; J. Phillips (1931) 161 ; Nel (1942) 62.

on **Olea laurifolia** Lam, Petrus Brandt, Knysna, *J. Phillips*, 18039 ; Deepwalls, *J. Phillips* 18049.

Podocarpus latifolius R. Br., Knysna, *J. Phillips*, 17797.

on old logs, Durban, *Medley Wood 391*, 1733, *v. d. Byl 367*, 31705 ; Bluff, *Moonsamy*, 15564 ; Eshowe, *Hislop*, 31743 ; Zululand, *v. d. Byl 513 ;* Knysna, *v. d. Byl 755*, *J. Phillips* (Stell. 828), *Gower*, 20464 ; Deepwalls, *Bottomley*, 30738 ; New Germany, Natal, *Moonsamy*, 31854 ; Nelspruit, *E. L. Stephens*, 25949, 34471 ; Maritzburg, *J. M. Sim*, 9138 ; Durban, *Burton*, 9797 ; Gouna Forest, *Keet*, 11549 ; Ngoye Forest, *Haygarth*, 15619 ; Blauwkrantz Forest, *Archibald*, 33561 ; Margate, (T.R.L. 285) : New Guelderland, *Addison*, 15618 ; Pirie Forest, *Leighton*, 12306.

Lentinus strigosus Fr.

Kalchbrenner & Cooke (1880) 18 ; Saccardo, Syll. Fung. V : 573 ; Wakefield (1936) 42.

on wood, Forest Hall, Knysna, *Duthie 54*, 31320 ; Natal, *Medley Wood 421*, 10378 ; Impolweni, *Rump* (Hœg 85).

Lentinus stuppeus Klotzsch.

Lloyd (1916 d) L. 63 : 2, (1917 a) L. 66 : 2, 12, (1920) 952, 1010, (1922) 1122.

on **Acacia mollissima** Willd., Cramond., *Doidge*, 31034.
Cynodon incompletus Nees, Pretoria, *Mogg*, 34441.
Eucalyptus macrorhyncha F. Muell., Cedara, *D.F.O.*, 7096.
Eucalyptus obliqua L'Hér., Cedara, *D.F.O.*, 7082.
Eucalyptus paniculata Sm., Izelini Plantation, near Stutterheim, *D.F.O.*, 12496.
Eucalyptus robusta Sm., Pretoria, *Kresfelder*, 25871.
Eucalyptus sideroxylon Cunn., Kabusi Plantation, near Stutterheim, *D.F.O.* 21032.
Fagara capensis Thunb., Intsimbini, near Port St. Johns, *D.F.O.*, 9209.
Persea americana Mill., Durban, *Morgan*, 28314.
Pinus sp., Entabeni, *Watson*, 25882.

on dead wood of trees undet., Durban, *Moon*, 2286, *Hobbs*, 31957 ; Howick, *Leslie*, 15638 ; Doonside, *Punt*, 20377 ; Pretoria, *Lansdell*, 25981 ; Barberton, *Thorncroft* (v. d. Byl 239) 20606, 31643 ; Woodbush, *D.F.O.*, 7349 ; Saltpan, Louis Trichardt, *Verdoorn & Schweickerdt*, 28324 ; Fountains, *L. Turner*, 7774 , 8777 ; Pretoria, *Louwrens*, 27702 ; The Willows, *Pole Evans*, 2299 ; Cedara, *E. P. Phillips*, 15040 ; Inanda, *Medley Wood 97*, Kew ; Hopevale, *Doidge*, 33176 ; Jameson's Drift, *Weintroub & Simpson* (T.R.L. 1669) 33279 ; Middelburg, Transvaal *E. L. Stephens* 499, 34459.

Lentinus tigrinus (Bull. ex Fr.) Fr.

Torrend (1905) 217.

on old trunks, Stikland, *Acocks*, 26157 ; ? Maritzburg, *Rump*, 27370 ; Moçambique (Torrend, " f. *minor* ").

Lentinus Tuber-regium Fr.

Mufuliru, *Eyles 8354*, Kew.

Lentinus ursinus Fr.

Lloyd (1916 d) L. 63 : 4.

without locality, *Duthie*.

Lentinus velutinus Fr.

Lloyd (1917 a) L. 66 : 12, (1920) 952, 1010, (1924) 1294 ; van der Byl (1924 c) 6, (1926 c) 289 ; Nel (1942) 62.

on dead stumps and branches, Maritzburg, *v. d. Byl 154 ;* Schroeders, *v. d. Byl 455, 1334,* 15624, 31757 ; Durban, *v. d. Byl 335, 338 ;* Woodbush, *v. d. Byl ;* Rikatli, *Junod,* 12172 ; Town Bush Valley, *Rump,* 27678 ; Gillits, *Haygarth* 31736 ; Potgietersrust, *Grosskopf* (v. d. Byl 1069, 1673) ; Stellenbosch, *Pretorius* (Stell. 1061) ; Pirie Forest, *Archibald,* 34231.

Lentinus villosus Klotzsch

Lloyd (1913 c) L. 47 : 9 ; Hopkins (1938 a) 114.

on live tree, Marandellas, *Eyles 7256,* Kew ; Natal, *Medley Wood.*

Lentinus Woodii Kalchbr.

Kalchbrenner (1880 b) 136 ; van der Byl (1924 c) 3 ; Sacc. Syll. Fung. V : 597 *Lentinus sajor-caju* Fr. var. *sparsifolius* Pilát (1936) 139.

on wood, Inanda, *Medley Wood 115* (S.A.M. 34616) ; Durban, *Medley Wood 118,* Kew, Berlin.

Lentinus Zeyheri Berk.

Berkeley (1843 b) 507 ; Kalchbrenner (1880 b) 135 ; Medley Wood (1903–4) 9 ; Sacc. Syll. Fung. V : 574 ; Nel (1942) 109.

Lentinus capronatus Berkeley (1843 b) 513, not Fries.

Lentinus villosus Klotzsch var. *Zeyheri* (Berk.) Pilát (1936) 140.

on **Portulacaria afra** Jacq., on dry wood, Uitenhage, *Zeyher 104.*

on decaying wood, Uitenhage, *Zeyher 13 ;* Natal, *Medley Wood 97,* 10377, 21058, 22052, Kew; Boschberg, *MacOwan 1078,* Kew ; Natal, *v. d. Byl 546;* Maritzburg, *J. M. Sim,* 9203.

Lepiota acutesquamosa (Weinm.) Gill.

on open ground, Pretoria, *Pole Evans,* 8928.

Lepiota africana Kalchbr.

Medley Wood (1898) 15, (1906) 6.

Agaricus (*Lepiota*) *africanus* Kalchbrenner (1881) 27.

Inanda, *Medley Wood 356, 417,* 10269, Kew; Natal, *Medley Wood 414,* Kew.

Lepiota atricapilla (Cooke & Mass.) Sacc.

Saccardo, Syll. Fung. IX : 10 ; Medley Wood (1898) 16.

Agaricus (*Lepiota*) *atricapillus* Cooke & Massee, Cooke (1888 b) 105.

on ground in Botanical gardens, Durban, *Medley Wood 828,* Kew.

Lepiota cristata (Alb. & Schw. ex Fr.) Quél.

on ground, Pretoria, *Reinecke,* 21209, *Bottomley,* 21239, *Punt,* 14532.

Lepiota cuculliformis (Fr.) Sacc.

Saccardo, Syll. Fung. V : 54.

Agaricus (*Lepiota*) *cuculliformis* Fries (1848) 4.

on ground, Cape, *Zeyher 8.*

Lepiota excoriata (Schaeff. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 31.

Agaricus (*Lepiota*) *excoriatus* Schaeff. ex Fr., Kalchbrenner (1880 b) 107.

on ground and in pastures after rain, Inanda, *Medley Wood 690*, 10211, Kew ; Durban, *Medley Wood 331*, 10214 ; near Somerset East, *MacOwan 1001 d* (S.A.M. 34713) Kew and *MacOwan 1430*, 20932 ; Bazuja, *Baur ;* Elsenburg, *Andrea*, 22010 ; Bloemfontein, *Potts*, 12968, 12988 ; Pretoria, *Bottomley*, 10055 ; Groot Schuur, Rondebosch, *Pole Evans*, 14637.

Lepiota flava Beeli

on ground under bushes, Garstfontein road, *Bottomley*, 30543.

Lepiota Goossensiae Beeli

? on humus, Fountains, *Reinecke*, 21222, *Bottomley*, 20375, *Hean*, 30566 ; Wonderboom, *Bosman*, 23721 ; Fairy Glen, *Bottomley*, 21210 ; Pretoria, *Louwrens*, 30611, *Howlett & Coetsee*, 2126.

Lepiota gracilenta (Krombh.) Quél.

in bush at foot of Boschberg, *MacOwan 1001* (S.A.M. 34694) Kew ; Uitenhage, *MacOwan*, Kew.

Lepiota hispida (Lasch.) Gill.

in humus, Hillcrest, Pretoria, *Reinecke*, 23690.

Lepiota ianthina (Cooke) Mass.

on ground under wattles, Garstfontein road, *Doidge*, 30601.

Lepiota lutea (With.) Godfrin

on decayed tea leaves, Pretoria, *King*, 30551.

Lepiota Kunzei (Fr.) Sacc.

Saccardo, Syll. Fung. V : 30.

Agaricus (*Lepiota*) *Kunzei* Fries (1848) 3.

Cape, *Zeyher*.

Lepiota magnannulata (Kalchbrenner.) Sacc.

Saccardo, Syll. Fung. V : 49.

Agaricus (*Lepiota*) *magnannulatus* Kalchbrenner (1880 b) 108.

Somerset East, *MacOwan 1422*.

Lepiota Montagnei (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 55.

Agaricus (*Lepiota*) *Montagnei* Kalchbrenner (1881) 53.

Agaricus (*Lepiota*) sp., Montagne (1847) 466.

without locality, *Drège 7 ;* Somerset East, *MacOwan 1430*.

Lepiota Morgani Peck

on ground, Pretoria, *Bottomley*, 23703, *Doidge*, 21234 ; Fairy Glen, *Bottomley*, 23163 ; Garstfontein road, *Doidge*, 30590 ; Skinner's Court, *Pole Evans*, 2113 ; Rustenburg, *Playford*, 12828 ; Zwartruggens, *Sutton*, 28650, 30579.

Lepiota naucina (Fr.) Quél.

Agaricus cretaceus Fr., Berkeley (1843 b) 513.

on ground and amongst grass, Uitenhage, *Zeyher* 112 ; Pretoria, *Fouché*, 14529, *Reinecke*, 23722, *Parkes*, 21191; Fountains, *Bottomley*, 20392 ; Bloemfontein, *Potts*, 12979, 12990 ; ? Cape Town, *Morse* (E. L. Stephens 11) 34498.

Lepiota nympharum Kalchbr.

on ground amongst grass, Pretoria, *Bottomley*, 30550, *Fischer*, 30587, *Doidge*, 30606, *v. Warmelo*, 30604 ; Estcourt, *Lansdell*, 30605.

Lepiota polysarca (Kalchbr. & MacOwan) Sacc.

Saccardo, Syll. Fung. V : 30.

Agaricus (*Lepiota*) *polysarcus* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 107.

in woods at foot of the Boschberg, *MacOwan 1370*, Kew.

Lepiota procera (Scop. ex Fr.) S. F. Gray

Saccardo, Syll. Fung. V : 27 ; van der Byl (1926 c) 289 ; J. Phillips (1931) 161.

Agaricus (*Lepiota*) *procerus* Scop. ex Fr., Kalchbrenner (1880 b) 107.

in grassy places, Boschberg, *MacOwan 1246* (S.A.M. 34711); de Beer's Rust, *Doidge & Hean*, 30594 ; Pretoria, *Doidge*, 23702, 30569, *Parkes*, 21189 ; Daspoort, *Kresfelder*, 30565 ; Garstfontein, *Pienaar*, 2122 ; Skinner's Court, *Pole Evans*, 1367 ; Koedoespoort, *Pole Evans*, 1368 ; Edendale, Pretoria Distr., *Mogg*, 22835 ; Leeuwkraal, 20657 ; Johannesburg, *Knox Davies*, 20656 ; Premier Mine, *Watson*, 24938 ; Woodbush, *N. Roberts*, 5658 ; Bloemfontein, *Potts*, 12987, *Naude*, 12961 ; Deepwalls, *J. Phillips*, 17807 ; Goedgedacht, *Sutton*, 28651 ; Estcourt, *Lansdell*, 30581 ; Rivulets, *Coetzee*, 32647 ; Milner Park, Johannesburg (T.R.L. 283).

Lepiota pteropa (Kalchbr. & MacOwan) Sacc.

Saccardo, Syll. Fung. V : 35, as *L. pteropoda*.

Agaricus (*Lepiota*) *pteropus* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 108 ; Kalchbrenner & Cooke (1880) 17.

in grassy places, Inanda, *Medley Wood 345*, *356*, *392*, Kew, ?(sub *L. pleuropus*) *Medley Wood 359*, *372* ; Boschberg, *MacOwan 1120* (S.A.M. 34697) Kew ; ? sub *L. Friesii* (S.A.M. 34693).

Lepiota sulfurella (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. V : 58, as *L. sulphurella*.

Agaricus (*Lepiota*) *sulfurellus* Kalchbr. & Cooke, Cooke (1879) 69 ; Kalchbrenner (1880 b) 108.

Inanda, *Medley Wood 387*, Kew.

Lepiota varians (Kalchbr. & MacOwan) Sacc.

Saccardo, Syll. Fung. V : 56.

Agaricus (*Lepiota*) *varians* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 108.

Agaricus (*Lepiota*) *rubricata* Berk. & Br. prox., Kalchbrenner & Cooke (1880) 7.

Lepiota purpurata Kalchbr., in Herb., ? nom. nud.
Agaricus purpuratus Kalchbr. var. *cinerea*, in Herb. ? nom nud.
Lepiota cinereo-rubella Kalchbr. & MacOwan, ? nom. nud.
amongst decaying leaves in bush, Boschberg, *MacOwan 1195* (? *1198* in Herb. Kew) (S.A.M. 34704) 2205c : on the ground, Inanda, *Medley Wood* 103, 394, 10266, Kew.

Lepiota Zeyheri (Berk.) Sacc.

Saccardo, Syll. Fung. V : 32.
Agaricus (*Lepiota*) *Zeyheri* Berkeley (1843 b) 507 ; Fries (1848) 2 ; von Thuemen (1876 b) 568, (1877 a) 407 ; Kalchbrenner (1880 b) 107.
in sandy places, Uitenhage, *Zeyher 92 :* in bush, near Somerset East, *MacOwan 1011 a* (S.A.M. 34695) ; Inanda, *Medley Wood 392.*

Var. **elegantula** Sacc.

Saccardo, Syll. Fung. V : 33.
in bush, foot of Boschberg, *MacOwan 1001* (Thuem. Myc. univ. 701) 22057, Kew.

Var. **telosa** (Kalchbr. & MacOwan) Sacc.

Saccardo, Syll. Fung. V : 33.
Agaricus (*Lepiota*) *Zeyheri* var. *telosus* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 107.
in bush, near Somerset East, *MacOwan*, Bazuja, *Baur.*

Var. **verrucellosus** (Miq.) Sacc.

Saccardo, Syll. Fung. V : 33.
Agaricus (*Lepiota*) *Zeyheri* var. *verrucellosus* (Miq.) Kalchbrenner, (1880 b) 107.
in bush, near Somerset East, *MacOwan ;* Bazuja, *Baur.*

Lepiota sp.

Cheesman (1909) 409.
in shaded place on edge of stream, Matopo Hills, *Cheesman.*

Marasmius calopus (Pers. ex Fr.) Fr.

on ground in Botanic Gardens, Durban, *Medley Wood 4082*, Kew : Hopevale, *Morgan*, 28544.

Marasmius candidus (Bolt. ex Fr.) Fr.

on trunk of **Phoenix reclinata** Jacq., Pretoria, *Louwrens*, 29886.

Marasmius delectans Morgan

on rotten wood and leaves, Pretoria, *Doidge*, 30575 ; Fountains, *Bottomley*, 20678 : Pretoria, *Reinecke*, 23159.

Marasmius epiphyllus Fr.

on decayed leaves and twigs, Fountains, *Bottomley*, 14640, 23157, *Parkes*, 21115 ; Pretoria, *Bottomley*, 23158.

Marasmius filaris Kalchbr. & MacOwan

Kalchbrenner (1880 b) 135 ; Sacc. Syll. Fung. V : 564.
on decaying leaves, Boschberg, *MacOwan 110*, 22063.

Marasmius haematocephalus Mont. ex Fr.

?on rotten sticks in deep shade, Umtali, *Eyles 7103*, Kew : Pretoria, *Bottomley*.

Marasmius hariolorum (Bull. ex Fr.) Quél.

Collybia confluens (Pers. ex Fr.) Quél., Saccardo, Syll. Fung. V : 222.
Agaricus (*Collybia*) *confluens* Pers. ex Fr., von Thuemen (1878 a) 353.
amongst grass, near Somerset East, *MacOwan* 1132.

Marasmius helvolus Berk.

Medley Wood (1898) 18.
on ground in bush, *Medley Wood 147*, 11213.

Marasmius oreadoides Pass.

Kalchbrenner (1880 b) 135 ; Saccardo, Syll. Fung. V : 506.
in grass, Boschberg, *MacOwan ;* near Cape Town, *MacOwan* (Rabenh. Fung. Eur. 3335) 3675, 22064, Kew.

Marasmius petalinus Berk. & Curt.

Medley Wood (1898) 18.
on ground, in bush, Inanda, *Medley Wood 676*, 10369, Kew.

Marasmius rotula (Scop. ex Fr.) Fr.

Kalchbrenner (1880 b) 135 ; Saccardo, Syll. Fung. V : 541.
on decaying leaves, Boschberg, *MacOwan ;* Pretoria, *Bottomley*, 23153, *Doidge & Hean*, 30553, 30555, Fairy Glen Road, *Doidge*, 30534 ; Garstfontein Road, *Doidge*, 30628.

Marasmius saccharinus (Batsch ex. Fr.) Fr.

Kalchbrenner (1880 b) 135 ; Saccardo, Syll. Fung. V : 559.
on decaying leaves, *MacOwan*.

Marasmius scorodonius Fr.

on ground, Pretoria, *Bottomley*, 23162, *Punt*, 20682 ; Newlands, *Marloth*, 26589.

Marasmius siccus (Schw.) Fr.

amongst fallen leaves, Pretoria, *Punt*, 18128, *Doidge & Hean*, 30554 ; Fountains, *Reinecke* 23144 ; on Lippia lawn, Pretoria, *Bottomley*, 30010.

Marasmius splachnoides (Hornem ex Fr.) Fr.

Kalchbrenner (1880 b) 135 ; Saccardo, Syll. Fung. V : 546.
Somerset East, *MacOwan*.

Marasmius tener Berk. & Curt.

Medley Wood (1898) 18.
on ground in bush, Natal, *Medley Wood 681*, 10370, Kew.

Marasmius Thwaitesii Berk. & Br.

von Thuemen (1876 b) 568 ; Saccardo, Syll. Fung. V : 556.
on rotten branches in forest, Boschberg, *MacOwan 1100* (S.A.M. 34641) 10371.

Marasmius torquescens Quél.

as *Marasmius togoensis* P. Henn., Hopkins (1938 a) 114.
? on dead leaves, Salisbury, *Eyles 2521*, 14849.

Marasmius ustorum Berk.

Berkeley (1876 a) 174 ; Saccardo, Syll. Fung. IX : 67.
on burnt ground, Groot Schuur, *Eaton*, Kew.

Marasmius sp.

van der Byl (1918 c) ; Stevenson & Rands (1938) 280.
on roots of **Saccharum officinarum** Linn., Natal coast, *v. d. Byl.*

Mycena acicula (Schaeff. ex Fr.) Quél.

on rotten twigs under Acacia trees, Klapperkop, *King*, 30583 ; Fairy Glen Road, *Doidge*, 30598.

Mycena alcalina (Fr.) Quél.

? Bulwer, *Rump*, 27613.

Mycena actiniceps (Kalchbr. & Cooke) Sacc.

Saccardo, Syll, Fung. V : 300.
Agaricus (*Mycena*) *actiniceps* Kalchbr. & Cooke, Kalchbrenner (1880 b) 110.
on dying leaves, near Somerset East, *MacOwan*, Kew.

Mycena arguta (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 304 ; Medley Wood (1898) 16.
Agaricus (*Mycena*) *argutus* Kalchbrenner (1881) 52.
on ground, Durban, *Medley Wood 340*, Kew.

Mycena capillaris (Schum. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 303.
Agaricus (*Mycena*) *capillaris* Schum. ex Fr., Kalchbrenner (1880 b) 111.
on fallen branches under bushes, Boschberg, *MacOwan 1041*, *1302* (S.A.M. 34867).

Mycena clavicularis (Fr.) Gill.

Agaricus (*Mycena*) *clavicularis* Fr., Cooke & Kalchbrenner (1881) 27.
on ground in bush, Inanda, *Medley Wood 147*, *478*, 10209, 10228, Kew.

Mycena corticola (Pers. ex Fr.) Quél.

Agaricus (*Mycena*) *corticola* Pers. ex Fr., Cooke & Kalchbrenner (1881) 27.
on twigs and bark, Inanda, *Medley Wood 474*, *484*, *492*, *550*, 10234, 10235, 10632, 11182, Kew : on bark of Acacia sp., Sherwood, Kenilworth, *Pearson* (record at Kew) ; on bark, Pretoria, *Doidge*, 20406, *Parkes*, 21114.

Mycena debilis (Fr.) Quél.

Saccardo, Syll. Fung. V : 285.
Agaricus (*Mycena*) *debilis* Fr., Kalchbrenner (1880 b) 111.
Somerset East, *MacOwan*.

Mycena dilatata (Fr.) Gill.

Saccardo, Syll. Fung. V : 298.
Agaricus (*Mycena*) *dilatatus* Fr., Kalchbrenner (1880 b) 111.
Somerset East, *MacOwan*.

Mycena (?) **Dregeana** (Lév.) Sacc.

Saccardo, Syll. Fung. V : 304.
Agaricus (*Mycena*) *Dregeanus* Léveillé (1846) 114.
on trunks, Cape, *Drège*.

Mycena galericulata (Scop. ex Fr.) S. F. Gray.

Nel (1942) 63.
on wooden posts fixed in soil, Somerset East, *MacOwan 1207* (S.A.M. 34853) ; on **Quercus** stumps, Stellenbosch, *v. d. Byl 1125*.

Mycena heliscus (Berk. & Br.) Sacc.

Saccardo, Syll. Fung. V : 289.
Agaricus (*Mycena*) *heliscus* Berk. & Br., Kalchbrenner (1880 b) 111.
on decaying branches, Boschberg, *MacOwan*.

Mycena hiemalis (Osbeck ex Fr.) Quél.

Agaricus (*Mycena*) *hiemalis* Osbeck ex Fr., Cooke & Kalchbrenner (1881) 27.
on twigs, Inanda, *Medley Wood 498, 555*, 10232, 10631.

Mycena macrorrhiza (Fr.) Sacc.

Saccardo, Syll. Fung. V : 271.
Agaricus (*Mycena*) *macrorrhizus* Fries (1848) 4.
Cape, *Zeyher 6*.

Mycena rhodiophylla (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 301.
Agaricus (*Mycena*) *rhodiophyllus* Kalchbrenner (1881) 52.
on ground, Durban, *Medley Wood 338*, 10213.

Mycena sciola (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 297.
Agaricus (*Mycena*) *sciolus* Kalchbrenner (1880 b) 111.
on damp walls of outhouses, Inanda, *Medley Wood 92, 388*, 10220, 10250, Kew.

Mycena tenerrima (Berk.) Quél.

on stems of shrubs, Boschberg, *MacOwan 1041* (S.A.M. 34866).

Mycena tintinnabula (Fr.) Quél.

Agaricus (*Mycena*) *tintinnabulum* Fr., Kalchbrenner (1880 b) 111.
Somerset East, *MacOwan*.

Mycena vitrea (Fr.) Quél.

Saccardo, Syll. Fung. V : 280.
Agaricus (*Mycena*) *vitreus* Fr., Kalchbrenner (1880 b) 111.
on bush, Somerset East, *MacOwan.*

Mycena vulgaris (Pers. ex Fr.) Quél.
on bark of trees, Inanda, *Medley Wood 550* (S.A.M. 34865).

Mycena sp.

Cheesman (1909) 409.
Groot Schuur, *Cheesman.*

Omphalia bulbosa Bres.

Bresadola (1920) 26 ; Saccardo, Syll. Fung. XXIII : 105
on roots of plants, Moçambique, *Torrend.*

Omphalia glaucophylla (Lasch) Gill.
in open woods, Fountains, *Punt*, 14520.

Omphalia griseo-pallida (Desm.) Quél.

Saccardo, Syll. Fung. V : 324.
Agaricus (*Omphalia*) *griseo-pallidus* Desm., Kalchbrenner (1880 b) 112.
on decaying leaves and bark, Durban, *Medley Wood 136.*

Omphalia integrella (Pers. ex Fr.) Quél.

Saccardo, Syll. Fung.V : 337.
Agaricus (*Omphalia*) *integrellus* Pers. ex Fr., Kalchbrenner (1880 b) 112.
on bark of **Acacia Karroo** Hayne, Somerset East, *MacOwan.*

Omphalia linopus (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 313 as *Omphalia linopoda.*
Agaricus (*Omphalia*) *linopus* Kalchbrenner (1880 b) 112.
in bush, Somerset East, *MacOwan 1369.*

Omphalia micromeles (Berk. & Br.) Sacc.

Agaricus (*Omphalia*) *micromeles* Berk. & Br., Cooke & Kalchbrenner (1881) 27.
on old wood, Inanda, *Medley Wood 477*, 10229, Kew.

Omphalia Oniscus (Fr.) Gill.
on ground under trees, Bloemfontein, *Potts*, 12986.

Omphalia pallescens Bres.

Bresadola (1920) 26 ; Saccardo, Syll. Fung. XXIII : 102.
on wood, Moçambique, *Torrend.*

Omphalia paurophylla (Berk.) Sacc.

Saccardo, Syll. Fung. IX : 43.
Agaricus (*Omphalia*) *paurophyllus* Berkeley (1876 a) 173.
on bark of a **Cycad**, Botanical Gardens, Cape Town, *Eaton*.

Omphalia polypus (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V: 338.
Agaricus (*Omphalia*) *polypus* Kalchbr., von Thuemen (1877 a) 408.
in bush at foot of the Boschberg, *MacOwan 1198* (Thuem. Myc. Univ. 801) Kew.

Omphalia rustica (Fr.) Quél.

Agaricus (*Omphalia*) *rusticus* Fr., Cooke & Kalchbrenner (1881) 27.
on soil in ditch, Inanda, *Medley Wood 509*, 10239, Kew.

Omphalia scyphoides (Fr.) Quél.

Saccardo, Syll. Fung. V : 310.
Agaricus (*Omphalia*) *scyphoides* Fr., Kalchbrenner (1880 b) 112.
Agaricus (*Omphalia*) *scyphiformis* Fr., Kalchbrenner l.c.
on grass and under bushes, Boschberg, *MacOwan*.

Omphalia syndesmia (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 328.
Agaricus (*Omphalia*) *syndesmius* Kalchbrenner (1880 b) 112.
amongst dead leaves, under bushes in forest, Boschberg, *MacOwan 1198* (S.A.M. 34869) Kew.

Omphalia umbellifera (Linn. ex Fr.) Quél. var. **cinnabarina** Berk.

Agaricus (*Omphalia*) *umbelliferus* Linn. ex Fr. var. *cinnabarinus* Berkeley (1843 b) 511.
on ground, Uitenhage, *Zeyher 46*.

Panus conchatus (Bull. ex Fr.) Fr.

Hopkins (1938 a) 114.
on ground, Salisbury, *Eyles 2085*, *2526*, 14852.

Panus quaquaversus Berk.

Berkeley (1876 a) 174 ; Saccardo, Syll. Fung. IX : 77.
on trunks, foot of Table Mt., *Eaton*, Kew.

Panus rudis Fr.

Lloyd (1911 b) L. 35 : 3.
Cape, *Becker*.

Panus stipticus (Bull. ex Fr.) Fr.

? on pine timber, Johannesburg, *Blackburn* (T.R.L. 1457) 33258.

Var. **farinaceus** (Schum. ex Fr.) Rea.
on bark of **Eucalyptus** sp., Stikland, *Acocks*, 26158.

Panus torulosus (Pers. ex Fr.) Fr.

Medley Wood (1898) 18 ; Hopkins (1938 a) 114 ; Nel (1942) 63.
on old stump, Inanda, *Medley Wood 411*, Kew ; on ground, Salisbury, *Eyles 2085* (v. d. Byl 1880) 14847 ; Maritzburg, *Rump*, 27373.

Panus Wrightii Berk. & Curt.

Berkeley (1876 a) 627.
on dead wood, foot of Table Mt., *Eaton*.

Pleurotus applicatus (Batsch ex Fr.) Quél.

Torrend (1905) 217 ; Lloyd (1920) 952 ; van der Byl (1921 g) 348; Nel (1942) 63.
on living bark of trees, Boschberg, *MacOwan 1048* (S.A.M. 34884) 20943; on wood, Durban, *v. d. Byl 596, 914* ; ? Maritzburg, *Rump 151*, 28550 ; Moçambique. (Torrend).

Pleurotus atrocaeruleus (Fr.) Gill.

Agaricus (*Pleurotus*) *atrocaeruleus* Fr., Kalchbrenner (1880 b) 114.
Boschberg, *MacOwan 1048*.

Pleurotus aureo-tomentosus (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 354.
Agaricus (*Pleurotus*) *aureo-tomentosus* Kalchbrenner (1880 b) 113 : Kalchbrenner & Cooke (1880) 17.
on wood, Inanda, *Medley Wood 103, 348, 416*, 32026.

Pleurotus caveatus (Berk. & Curt.) Sacc.

Saccardo, Syll. Fung. V : 353.
Agaricus (*Pleurotus*) *caveatus* Berk. & Curt., Kalchbrenner (1880 b) 113.
on decaying wood in bush, Boschberg, *MacOwan 1045* (S.A.M. 34897) Kew : eastern Natal, *MacOwan 1216*.

Pleurotus clusilis (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 384.
Agaricus (*Pleurotus*) *clusilis* Kalchbrenner (1880 b) 114.
on dry branches, Somerset East, *MacOwan 1038* (S.A.M. 35027 ; S.A.M. 34880 as *Crepidotus clusilis* Kalchbr.) Kew.

Pleurotus contrarius (Kalchbr.) Sacc.

Saccardo Syll. Fung. V : 363.
Agaricus (*Pleurotus*) *contrarius* Kalchbrenner (1880 b) 113.
on dry branches, Boschberg, *MacOwan*.

Pleurotus flabellatus (Berk. & Br.) Sacc.

Saccardo, Syll. Fung. V : 369.
Agaricus (*Pleurotus*) *flavellatus* Berk. & Br., Kalchbrenner (1880 b) 113.
on decaying wood, Boschberg, *MacOwan*.

Pleurotus gilvescens (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 386.

Agaricus (*Pleurotus*) *gilvescens* Kalchbrenner (1880 b) 114.

on ground, Durban, *Medley Wood 332*, 10216.

Pleurotus limpidus (Fr.) Gill.

Saccardo, Syll. Fung. V : 364.

Agaricus (*Pleurotus*) *limpidus* Fr., Kalchbrenner (1880 b) 113 ; Cooke & Kalchbrenner (1881) 27.

on fallen branches, Boschberg, *MacOwan 1052* (S.A.M. 34883, as *Pleurotus Haedinus* Berk. & Curt.) ; on decaying wood, Natal, *Medley Wood 518*, 10243, 11181.

Pleurotus olearius (DC. ex Fr.) Gill.

Saccardo, Syll. Fung. V : 346.

Agaricus (*Pleurotus*) *olearius* DC. ex Fr., Kalchbrenner (1880 b) 112.

on trunks of **Olea africana** Mill., in bush, Boschberg, *MacOwan 1216*, Kew.

Pleurotus ostreatus (Jacq. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 355 ; Nel (1942) 63.

on **Hibiscus tiliaceus** Linn., Durban, *Eadie* (v. d. Byl 1053).

Salix sp., on roots, Somerset East, *MacOwan 1215* (S.A.M.) 22068.

on trunks of trees, Boschberg, *MacOwan 1053* (S.A.M. 34890).

Pleurotus perpusillus (Fr.) Gill.

Saccardo, Syll. Fung. V : 383.

Agaricus (*Pleurotus*) *perpusillus* Fr., Cooke (1879 b) 69 ; Kalchbrenner (1880 b) 114.

on trunks of trees, Natal, *Medley Wood 191*, 11178.

Pleurotus petaloides (Bull. ex Fr.) Quél.

on rotten wood, Xumeni Forest, *Doidge*.

Pleurotus radiatim-plicatus (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 380.

Agaricus (*Pleurotus*) *radiatim-plicatus* Kalchbrenner (1880 b) 113.

on fallen branches, Boschberg, *MacOwan*.

Pleurotus sciadium (Kalchbr. & MacOwan) Sacc.

Saccardo, Syll. Fung. V : 372.

Agaricus (*Pleurotus*) *sciadium* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 112.

on decaying wood, Boschberg, *MacOwan & Tuck* (MacOwan 1243 ; S.A.M. 34896) 22069, Kew.

Var. **salmoneus** (Kalchbr. & MacOwan) Sacc.

Saccardo, Syll. Fung. IX : 51.

Agaricus (*Pleurotus*) *sciadium* var. *salmoneus* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 112.

on decaying trunks, Boschberg, *MacOwan 1401* (Herb. Kew as *Pleurotus salmoneus* Kalchbr. & MacOwan ; S.A.M. 34916 as *Claudopus sciadium* Kalchbr.).

Pleurotus septicus (Fr.) Quél.

Saccardo, Syll. Fung. V : 375.

Agaricus (*Pleurotus*) *septicus* Fr., Kalchbrenner & Cooke (1880) 17 ; Kalchbrenner (1880 b) 113.

on bark, *Medley Wood 135, 191*, 10210.

Pleurotus striatulus (Fr.) Quél.

Agaricus (*Pleurotus*) *striatulus* Fries (1848) 5.

on branches, Natal, *Wahlberg*.

Russula cyanoxantha (Schaehh. ex Secretan) Fr.

under oaks and pine trees, Kirstenbosch, *E. L. Stephens*, 24365.

Russula integra (Linn. ex Fr.) Fr.

under pine trees, Pretoria, *Louwrens*, 28513.

Russula pectinata Bull. ex Fr.

on ground, Pretoria, *Doidge*, 30548.

Russula rubra Fr.

on contour path above Kirstenbosch, *Garabedian* (S.A.M. 45897).

Schizophyllum commune Fr.

Montagne (1847) 168 ; Fries (1848) 6 ; Berkeley (1876 a) 174 ; MacOwan (1895) 331 ; Lorrain Smith (1901) 466 ; Torrend (1905) 217 ; Cheesman (1909) 410; V. A. Putterill (1922); van der Byl (1922 d) 286, (1925 b) 195; Verwoerd (1929 b) 6, (1931 a) 300 ; J. Phillips (1931) 159 : Wakefield (1936) 50; Hopkins (1938 a) 114, (1939 a) 23, 38 ; Doidge & Bottomley (1931) 8, 9, 18, 51, 68 ; Nel (1942) 63 ; Simpson & Talbot (1946) 134.

Merulius alneus Linn., Thunberg (1800) 182, (1823) 755.

Schizophyllum alneum (Linn.) Schroet., P. Hennings (1892) 351.

Schizophyllum flabellare, Fr., Kalchbrenner (1880 b) 136 ; Saccardo, Syll. Fung. V : 655.

on **Acacia decurrens** Willd., Skinner's Court, *Pole Evans* 963 : Harden Heights, *Pole Evans*, 1320 ; Jessievale Plantations, *Vicht*, 31512.

Acacia Karroo Hayne, Kroonstad, *Pont*, 24935.

Acacia melanoxylon R. Br., Knysna, *D.F.O.* 12794.

Acacia mollissima Willd., Cramond, *Fuller*, 1543 : Maritzburg, *Fuller*, 1905 : Cedara, *Gill*, 28482 : Johannesburg, *Mogg*, 15023 : Onderstepoort, *Mogg*, 23637 : Qudeni Forest, *Weintroub & Simpson* (T.R.L. 1706) : on timber in storage, Johannesburg (T.R.L. 367) : Athol, Amsterdam, *Pont*, 33980 : Qudeni Forest, *Simpson & Talbot*, 34999.

Acacia saligna Wendl., Stellenbosch, *v. d. Byl*.

Acacia spp., Fountains Valley, *Louwrens & Lansdell*, 28459 : Cape Town, *Attridge*, 11617 ; East London, *Bartel* (v. d. Byl 2362).

Celtis Kraussiana Bernh., Lusikisiki, *D.F.O.*, 6928.

Eucalyptus sp., Wellington, *Bottomley*, 1544.

Ficus sp., Durban, *Casey*, 27686.

Juglans sp., Salisbury (Rh. 702).

Leucadendron argenteum R. Br., Cape, Kew.

Olea sp., Qudeni Forest, *Simpson & Talbot*, 34999.

Olinia cymosa Thunb., Deepwalls, *J. Phillips*, 18044.
Pandanus sp., Durban, *Moonsamy* (v. d. Byl 11) 15553.
Phoenix reclinata Jacq., Umtali, *Eyles 1726*, 15659.
Pinus pinaster Ait., without locality, *H. B. Stephens*, 15646.
Pinus sp., on bark of timber in storage, Johannesburg (T.R.L. 482).
Populus sp., Baaken's River Valley, *K. M. Putterill*, 28529.
Prunus Armeniaca Linn., Wellington, *Taylor*, 13071, *V. A. Putterill ;* Wellington, Paarl, Piquetberg, *Verwoerd ;* Potgietersrust, *Mellé*, 14698 ; Pretoria, *v. d. Merwe*, 34124.
Prunus Avium Linn., Wellington, *V. A. Putterill.*
Prunus persica Sieb. & Zucc., Bloemfontein, *Verwoerd;* Stellenbosch, *Verwoerd* (Stell. 59) ; Krakeel, *Bottomley*, 33463 ; Somerset West, *Dippenaar.*
Prunus salicina Lindl. (and hybrids) Wellington, *Taylor*, 13070, *V. A. Putterill ;* Groot Drakenstein, *V. A. Putterill ;* Claremont, Pretoria, *Kresfelder*, 26633.
Pyrus malus Linn., Skinners Court, *Bottomley*, 23361 ; Fort Victoria, Bulawayo, M'Soneddi, Salisbury, *Hopkins.*
Quercus sp., Wellington, *Doidge*, 1035.
Rhus sp., Somerset East, *MacOwan.*
Saccharum officinarum Linn., Umfolosi, *v. d. Byl 677*, 31889.
Vitis sp., Alexandria, *D.F.O.*, 11243.
on dead wood, Nieuwekloof, *Drège 9415 c, e ;* Natal, *Wahlberg ;* Boschberg, *MacOwan 1070* (Rabenh. Fung. Eur. 3646 ; S.A.M. 34420) 20821, 20937, 22076 ; foot of Table Mt., *Eaton ;* Fort Cunynghame, *T. R. Sim ;* Pondoland, *Bachmann ;* Durban, *Medley Wood 93* (S.A.M. 34421) ; Mossamedes, *Welwitsch 352.*
on dead and living wood of trees undet., Zimbabwe, *Hφeg 18 ;* Mazoe (Rh. 597) ; Darwindale (Rh. 1176) ; Ondonga, *Barnard* (S.A.M. 45946) ; Knysna, *Duthie*, 31295 ; Kirstenbosch, *Bottomley*, 24825, *Lansdell* 24826 ; Alicedale, *Cruden*, 12182 ; Mont-aux-Sources, *Doidge*, 23395 ; Xumeni Forest, *Doidge*, 30795 ; Hopevale, *Morgan*, 27715, 30264 ; Ngoye Forest, *Haygarth* (v. d. Byl 277) 31664 ; Letaba Drift, *Doidge*, 1729 ; north of Pietersburg, *Grosskopf* (v. d. Byl 1704) ; Westfalia Estate, *Doidge*, 1692 ; de Hoek road, Woodbush, *Wager*, 23224 ; Woodbush, *Wager*, 25923, *D.F.O.*, 7352 ; Rhenosterhoek, (T.R.L. 313) ; Tzaneen (T.R.L. 624) Fountains Valley, *Punt*, 14498, 20376, *Louwrens*, 27567, 27568 ; Wonderboom, *Bosman*, 23706, *Doidge & Bottomley*, 28724 ; The Willows, *Doidge*, 28896 ; Pretoria, *Gower*, 18133 ; Elim, *Watson*, 25355 ; Johannesburg, *Bottomley*, 8775 ; Potchefstroom, *Gunn*, 30510 ; Zomba, *Gideon Joubert*, 9765 ; Rikatli, *Junod*, 11539 ; Lourenço Marques, *Tooke*, 33753.
on underground mine timbers, Langlaagte Gold Mine, *Cheesman ;* Wesselton Diamond Mine, Kimberley, *Cheesman ;* in coal mine, Wankie, *Hφeg 145 ;* Fairview Gold Mine, Barberton, *A. L. Hall*, 12308; Crown Mines, *Lurie* (T.R.L. 27) 28844; Kimberley, *Wilman*, 11009, 17102 ; Robinson Deep (T.R.L. 43); Daggafontein Mines (T.R.L. 439) ; New Amianthus Mine (T.R.L. 136) ; Western Reefs (T.R.L. 1796) ; Nourse Mines (T.R.L. 446).
isolated by spore catch from air in mines, Spring Mines (T.R.L. 833) ; South African Lands and Exploration Co. (T.R.L. 1517).

Schulzeria Umkowaan (Cooke & Mass.) Sacc.

Saccardo, Syll. Fung. IX : 11 ; van der Byl (1920 b) 286 ; Nel (1942) 63.
Agaricus (*Schulzeria*) *Umkowaani* Cooke & Massee, Cooke (1889) 70 ; Medley Wood (1899) 6.
on subterranean termite nests, near Durban, *Medley Wood 4060*, Kew ; Pretoria, *Native collector*, 23663, *Parkes*, 21192 ; Baviaans River, *Gideon Joubert*, 21048 ; Howick, *Playford*, 20429 ; Grahamstown, *Hewitt ;* Meintjies Kop, Bloemfontein, *Potts*, 12973 ; Durban, *v. d. Byl 1108 ;* Natal, *Bell* (v. d. Byl 90) ; Umtata (T.R.L. 303).

Tilotus lenzitiformis Kalchbr.

Kalchbrenner (1880 b) 137 ; Saccardo, Syll. Fung. V : 652.
on bark, Durban, *Medley Wood 94 ;* Cape, *MacOwan 1401*, Kew.

Tricholoma album (Fr.) Quél.

Rondebosch, *MacOwan*, Kew.

Tricholoma amarum (Fr.) Rea.

Clitocybe amara (Fr.) Quél., Saccardo, Syll. Fung. V : 149.
Agaricus (*Clitocybe*) *amarus* Fr., von Thuemen (1877 a) 407 ; Kalchbrenner (1880 b) 109.
among decaying leaves in bush, Boschberg, *MacOwan & Tuck* (MacOwan 1013, 1212 ; Thuem. Myc. univ. 702) 22037, Kew.

Tricholoma caffrorum (Kalchbr. & MacOwan) Sacc.

Saccardo, Syll. Fung. V : 122.
Agaricus (*Tricholoma*) *caffrorum* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 109.
Rhodopaxillus caffrorum (Kalchbr. & MacOwan) Singer (1942) 109.
in grassy fields, Somerset East, *MacOwan 1222*, Kew.

Var. **sulonense** (Kalchbr. & MacOwan) Sacc.

Saccardo, Syll. Fung. V. : 122.
Agaricus (*Tricholoma*) *caffrorum* var. *sulonensis* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 109.
Somerset East, *MacOwan*.

Tricholoma cerinum (Pers. ex Fr.) Quél.

? on soil in greenhouse, Pretoria, *Wager*, 23621.

Tricholoma gambosum (Fr.) Gill.

in fields after rain, near Somerset East, *MacOwan 1119* (S.A.M. 34733) 20921.

Var. **capense** Kalchbr. & MacOwan.

? nom. nud.
amongst grass, forming rings, Somerset East, *MacOwan 1222* (S.A.M. 34734).

Tricholoma Georgii (Clus. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 120.
Agaricus (*Tricholoma*) *Georgii* Clus. ex Fr., Kalchbrenner (1880 b) 109 , von Thuemen (1877 a) 407.
sub *Rhodopaxillus caffrorum* (Kalchbr.) Singer (1942) 109.
in grassy fields, near Somerset East, *MacOwan 1119* (Thuem. Myc. univ. 1001) Kew.

Tricholoma melaleucum (Pers. ex Fr.) Quél.

Boschberg, *MacOwan 1411* (S.A.M. 34749).

Var. **adstringens** (Pers. ex Fr.) Quél.

in woods at foot of Boschberg *MacOwan 1196* (S.A.M. 34750).

Var. **porphyroleucum** (Bull. ex Fr.) Gill.

Agaricus (*Tricholoma*) *melaleucus* var. *porphyroleucus* Bull. ex Fr., Cooke & Kalchbrenner (1881) 27.

Durban, *Medley Wood 495*, 10231, Kew.

Tricholoma nudum (Bull. ex Fr.) Quél.

under shrubs or amongst grass, Pretoria, *Fouché*, 18129, *Erens*, 31056 ; Fountains, *Punt*, 20407.

Tricholoma personatum (Fr.) Quél.

Skinners Court, *Pole Evans*, 2118.

Tricholoma russula (Schaeff. ex Fr.) Gill.

Salisbury, *Eyles 2525*, 14859.

Tricholoma saponaceum (Fr.) Quél.

on ground, Pinelands and Kloof Neck, *Andre*, 24364.

Tricholoma ustale (Fr.) Quél.

Saccardo, Syll. Fung. V : 94.

Agaricus (*Tricholoma*) *ustalis* Fr., Kalchbrenner (1880 b) 109 ; Cooke & Kalchbrenner (1881) 27.

in pine woods, near Somerset East, *MacOwan 1176* ; on soil in woods, Durban, *Medley Wood 428*, 10272, Kew.

Xerotus Berterii Mont.

Lloyd (1923) 1186 ; Hopkins (1938 a) 114.

on dead wood in dark forest, Umtali, *Eyles 7102*, Kew.

Xerotus caffrorum Kalchbr. & MacOwan

Kalchbrenner (1880 b) 136 ; Kalchbrenner & Cooke (1880) 17 ; Saccardo, Syll. Fung. V : 634.

on roots of bushes, Boschberg, *MacOwan 1132* (Rabenh. Fung. Eur. 3236) 21980, Kew.

on rotten wood in bush, Boschberg, *MacOwan 1156* (*1186* in Kalchbrenner, l.c.) (S.A.M. 34611) 22077, *MacOwan 1218* (S.A.M. 34610) ; Inanda, *Medley Wood 371*, 11140 ; Durban, *Medley Wood 341*, 11139, Kew.

Xerotus fuliginosus Berk. & Curt.

Lloyd (1915 a) L. 60 : 3, 10.

common in decayed twigs in forest, Knysna, *Duthie 50*, 31317.

Xerotus nigritus Lév.

Kalchbrenner & Cooke (1880) 18 ; Cooke & Kalchbrenner (1881) 26.

Anthracophyllum nigrita (Lév.) Kalchbrenner (1880 b) 137 ; Saccardo, Syll. Fung. V : 1139.

Panus melanophyllus Fries (1848) 5.

on slender branches and on trunks, Natal, *Wahlberg* ; Durban, *Medley Wood 189*, 10201, 10025, 15621, 31795, Kew.

OCHROSPORAE.

Astrosporina maritima (Fr.) Rea

? in sandy soil, on edge of plantations of *Pinus*, Fairy Glen Road, near Pretoria, *Doidge*, 30597.

Bolbitius Boltonii (Pers. ex Fr.) Fr.

Kalchbrenner (1880 b) 134 ; Sacc. Syll. Fung. V : 1074.
Somerset East, *MacOwan*.

Bolbitius bulbillosus Fr.

Kalchbrenner (1880 b) 134 ; Sacc. Syll. Fung. V : 1074.
Somerset East, *MacOwan*.

Bolbitius fragilis (Linn.) Fr.

Kalchbrenner (1880 b) 134 ; Sacc. Syll. Fung. V : 1074.
Somerset East, *MacOwan*.

Bolbitius liberatus Kalchbr.

von Thuemen (1880) no. 1032 ; Sacc. Syll. Fung. V : 1077.
on ground amongst grass, Boschberg, *MacOwan 1002* (Thuem. Myc. univ. 1302 ; S A.M. 34520) 21946, Kew.

Bolbitius MacOwani Kalchbr.

? nom. nud.
in gardens near Somerset East, *MacOwan 1367* (S.A.M. 34519) Kew.

Bolbitius mitraeformis Berk.

Berkeley (1844) 186 ; Kalchbrenner (1880 b) 134 ; Sacc. Syll. Fung. V : 1078.
on old dung, Devil's Peak, *Harvey ;* summit of Table Mt., *Harvey ;* Somerset East, *MacOwan 1002*.

Cortinarius argutus Fr.

Natal, *Medley Wood 340*, 10259.

Cortinarius camurus Fr.

in poplar bush, near Wonderboom, *Doidge & Bottomley*, 28732.

Cortinarius castaneus (Bull. ex Fr.) Fr.

? on ground under poplars, de Beer's Rust, *Doidge & Bottomley*, 30593.

Cortinarius fusco-tinctus Rea

? on ground under bushes, off Garstfontein Road, *Bottomley*, 30619.

Cortinarius lepidopus Cooke.

in poplar bush, near Wonderboom, *Doidge & Bottomley*, 28731.

Cortinarius multiformis Fr.

on **Eucalyptus globulus** Lab., Concordia Plantation, Knysna, *Keet*, 13062.

Crepidotus applanatus (Pers. ex Fr.) Karst.

Saccardo, Syll. Fung. V : 878.
Agaricus (*Crepidotus*) *applanatus* Pers. ex Fr., Kalchbrenner (1880 b) 131.
on damp wood, Somerset East, *MacOwan 1202*, Kew.

Crepidotus episphaeria (Berk.) Sacc.

Saccardo, Syll. Fung. V : 885.
Agaricus (*Crepidotus*) *episphaeria* Berkeley (1846) 1 ; Montagne (1847) 167.
" on decayed Sphaeriae, in wooded valley between Buffelsrivier and Key," *Drège 9413 a, b* (1), Kew.

Crepidotus Inandae (Cooke) Sacc.

Saccardo, Syll. Fung. IX : 116.
Agaricus (*Crepidotus*) *Inandae* Cooke (1890 b) 6.
on bark, Natal, *Medley Wood 680*, 10206, Kew.

Crepidotus mollis (Schaeff. ex Fr.) Quél.

on **Eucalyptus** logs, Pretoria, *Pole Evans*, 8927
Populus stumps, de Beer's Rust, *Doidge*, 30541, 30542 ; Kloof Neck, *Andre*.

Crepidotus pogonatus (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 884.
Agaricus (*Crepidotus*) *pogonatus* Kalchbrenner (1880 b) 131.
on fallen branches, Boschberg, *MacOwan 1075*, Kew.

Crepidotus scalaris (Fr.) Karst. var. **lobulatus** (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 878.
Agaricus (*Crepidotus*) *scalaris* Fr. var. *lobulatus* Kalchbrenner (1881) 53.
on trunks of trees, Durban, *Medley Wood 342*.

Flammula alnicola (Fr.) Quél.

Medley Wood (1898) 16.
Agaricus (*Flammula*) *alnicola* Fr., Cooke & Kalchbrenner (1881) 27.
on dead wood, Inanda, *Medley Wood 512*, 10242, 11179, Kew.

Flammula flavida (Schaeff. ex Fr.) Quél. var.

Agaricus (*Flammula*) *flavidus* Schaeff. ex. Fr., var., Berkeley (1876 a) 173.
on stumps, at base of Table Mt., *Eaton*.

Flammula Harmoge (Fr.) Karst.

Saccardo, Syll. Fung. V : 823.
Agaricus (*Flammula*) *Harmoge* Fr., Kalchbrenner (1880 b) 115.
on roof of hut (pine wood) Somerset East, *MacOwan 1380*, 20848, Kew.

Doubtful species.

Flammula hybrida (Fr.) Gill.

Hopkins (1938 a) 114.
? on dead tree, Salisbury, *Eyles 2086*, 14850 ; on pine wood, Pinelands, *E. L. Stephens*, 27271.
Konrad & Maublanc (1924 : 108) refer this species to a variety of *Flammula sapinea*.

Flammula Janus (Berk. & Br.) Sacc.

Saccardo Syll. Fung. V : 821.
Agaricus (*Flammula*) *Janus* Berk. & Br., Kalchbrenner (1880 b) 115.
on decaying wood, Boschberg, *MacOwan 1013*.

Flammula sapinea (Fr.) Quél.

on wood, Maritzburg, *Pole Evans*, 1361, Kew ; Rondebosch, *Bottomley*, 24366 ; Kirstenbosch, *V. A. Putterill*, 14834 ; on pine stumps, Newlands, E. L. *E. L. Stephens*, 24839.

Flammula tilopus (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 818, as *Flammula tilopoda* Kalchbr. & MacOwan.
Agaricus (*Flammula*) *tilopus* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 115.
on trunks, or on ground round trunks, Somerset East, *MacOwan*, Kew.

Galera Eatoni (Berk.) Sacc.

Saccardo, Syll. Fung. IX : 113.
Agaricus (*Galera*) *Eatoni* Berkeley (1876 a) 173.
on dead bark, at base of Table Mt., *Eaton*.

Galera hypnorum (Schrank ex Fr.) Quél.

Agaricus (*Galera*) *hypnorum* Schrank ex Fr., Kalchbrenner (1880 b) 116.
in bush, Boschberg, *MacOwan 1213* (S.A.M. 34964) 20924.

Galera lateritia (Fr.) Quél.

amongst grass, Bloemfontein, *Potts*, 12962.

Galera peroxydata (Berk.) Sacc.

Saccardo, Syll. Fung. V : 864.
Agaricus (*Galera*) *peroxydatus* Berkeley (1843 b) 511.
on bare ground, Uitenhage, *Zeyher 109*.

Galera pygmaeo-affinis (Fr.) Quél.

? on ground, Pretoria, *Bottomley*, 21094.

Galera spartea (Fr.) Quél.

on lawn, Pretoria, *Doidge*, 30572.

Galera sphagnorum (Pers. ex Fr.) Karst.

Saccardo, Syll. Fung. V : 869.
near Boschberg, ? *MacOwan*.

Galera tenera (Schaeff. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 860.

Agaricus (*Galera*) *tener* Schaeff. ex Fr., Kalchbrenner (1880 b) 116.

amongst shrubs, Somerset East, *MacOwan ;* Natal, *Medley Wood ;* on ground amongst grass, Pretoria, *Bottomley*, 30558 ; (?) Pretoria, *Reinecke*, 21238

Var. **siliginea** (Fr.) Quél.

on lawn, Pretoria, *Parkes*, 23092.

Hebeloma nudipes (Fr.) Karst.

? under bushes, Klein Vis Rivier, *MacOwan*, 20934.

Hebeloma spoliatum (Fr.) Gill.

Saccardo, Syll. Fung. V : 803.

Agaricus (*Hebeloma*) *spoliatus* Fr., Kalchbrenner (1880 b) 115.

Somerset East, *MacOwan 1388*, 22084.

Inocybe microspora J. E. Lange

? in humus under Acacia tree, Fairy Glen Road, *Doidge*, 30533.

Naucoria arenicola (Berk.) Sacc.

Saccardo, Syll. Fung. V : 845.

Agaricus (*Naucoria*) *arenicola* Berkeley (1843 b) 511 ; Kalchbrenner (1880 b) 115.

on sandy ground, Uitenhage, *Zeyher 110 ;* Somerset East, *MacOwan*.

" Zeyheri n. 110 ad mea non distinguendus ab A. (Naucoria) Pediade " Fries (1848) 5.

Naucoria arvalis (Fr.) Quél.

on cow dung, Uitenhage, *Zeyher*, Kew (ex Herb. Hooker).

Naucoria furfuracea (Pers. ex Fr.) Quél.

Agaricus (*Naucoria*) *furfuraceus* Pers. ex Fr., Berkeley (1843 b) 511.

on ground, Uitenhage, *Zeyher 107*.

According to Rea (1922) 409, Quélet's *Naucoria furfuracea* Pers. is *Galera spicula* (Lasch) Fr.

Naucoria pediades (Fr.) Quél.

Saccardo, Syll. Fung. V : 844.

Agaricus (*Naucoria*) *pediades* Fries (1848) 5 ; von Thuemen (1876 b) 362.

on dung in grass, Boschberg, *MacOwan 1006 a* (Thuem. Myc. univ. 802) 22065, Kew (as MacOwan 1106) ; in vineyards and fields near Somerset East, *MacOwan 1377*, Kew ; Natal, *Medley Wood 464*, 10223.

Var. **obscuripes** Fayod

Fayod (1890) 226 ; Saccardo, Syll. Fung. XI : 57.

in groups in dry grass, Olukonda, *Schinz*.

Naucoria pygmaea (Bull. ex Fr.) Gill.

Saccardo, Syll. Fung. V : 833.

Agaricus (*Naucoria*) *pygmaeus* Bull. ex. Fr., Kalchbrenner (1880 b) 116.

in fields near Somerset East, *MacOwan 1209*, *1310* (S.A.M. 34967) ; in damp pastures, Durban, *Medley Wood 91*.

Naucoria russa (Cooke & Mass.) Sacc.

? round base of willow stump, Bloemfontein, *Potts*, 12964.

Naucoria scolecina (Fr.) Quél.

? under pine trees, Bloemfontein, *Potts*, 12995.

Naucoria semiorbicularis (Bull. ex Fr.) Quél.

Agaricus (*Naucoria*) *semiorbicularis* Bull. ex Fr., Berkeley (1843 b) 511, (1876 a) 173 ; Fayod (1890) 226.

on cow dung, Uitenhage, *Zeyher 105 ;* Boschberg, *MacOwan 1006 a*, 22065 ; in dry grass, Olukonda, *Schinz ;* near the gaol and the harbour, Cape Town, *Eaton*, Kew ; amongst grass, Bloemfontein, *Potts*, 12963, 12974 ; Pretoria, *Goldblatt*, 21092, 21233 ; Cango Caves, *Marloth*, 26618 ; Maritzburg, *Rump*, 27616 ; Pretoria, *Bottomley*, 30931. at base of *Eucalyptus globulus*, Knysna, *Laughton*, 32112.

Naucoria undulosa (Jungh.) Sacc.

Saccardo, Syll. Fung. V : 846.

Agaricus (*Naucoria*) *undulosus* Jungh., Kalchbrenner (1880 b) 116.

under shrubs, Boschberg, *MacOwan 1223* (S.A.M. 34974) ; Durban, *Medley Wood 370*, 10256.

Paxillus atraetopus Kalchbr.

von Thuemen (1877 c) 87 ; Saccardo, Syll. Fung. V : 989.

on trunks of felled trees, Boschberg, *MacOwan 1216* (Thuem. Myc. univ. 803) Kew.

Paxillus extenuatus Fr.

? under pine trees, Signal Hill, *V. A. Putterill*, 15495.

Paxillus involutus (Batsch ex Fr.) Fr.

Lloyd (1920) 1073, 1074.

on ground, under trees, Knysna, *Duthie 277*, 31450 ; Pretoria, *Howlett*, 2112, *Bottomley*, 10057 ; Fairy Glen, *Reinecke*, 21205.

Paxillus panuoides Fr.

Kalchbrenner (1880 b) 134 : Sacc. Syll. Fung. V : 989 : Brown (1936) 388.

South Africa, *MacOwan*.

on underground mine timber, Pilgrims Rest, *Lurie* (T.R.L. 117) 28830 : Jubilee Mine (T.R.L. 152) ; Randfontein Estates, *Lurie* (T.R.L. 12) 28752.

Pholiota aurivella (Batsch ex Fr.) Quél.

Agaricus (*Pholiota*) *aurivellus* Batsch ex Fr., Cooke & Kalchbrenner (1881) 27.

on ground, Natal, *Medley Wood 533*, 10202, 11180.

Pholiota cylindracea (DC. ex Fr.) Gill.

on poplar logs, Wonderboom, *Doidge & Bottomley*, 28734.

Pholiota dura (Bolt. ex Fr.) Quél.

near roots of Salix sp., Somerset East, *MacOwan 1418* (S.S.M. 34938) Kew.

Pholiota flammans (Fr.) Quél.

Natal, *Medley Wood 673*, 10205 ; Durban, *Putter*, 32012.

Pholiota mutabilis (Schaeff. ex Fr.) Quél.

on wood, Xumeni Forest, *Doidge*, 32177.

Pholiota mycenoides (Fr.) Quél.

Saccardo, Syll. Fung. V : 760.

Agaricus (*Pholiota*) *mycenoides* Fr., Kalchbrenner (1880 b) 115.

Somerset East, *MacOwan*, Kew (ex Herb. Kalchbr.).

Pholiota spectabilis (Fr.) Quél.

Agaricus (*Pholiota*) *spectabilis* Fr., Berkeley (1876 a) 173.

near the trunks of leafy trees, between the foot of Lion's Head and Table Mt., *MacOwan 1444*, Kew ; foot of Table Mt., *Eaton*, Kew ; Botanical Gardens, Cape Town (S.A.M. 34936) ; on Pine stumps, Cape Town, *E. L. Stephens*, 24387 ; at base of *Eucalyptus globulus* Lab., Knysna, *Laughton*, 32110 ; Bulwer, *Rump*, 27622 ; Town Hill, Maritzburg, *Rump 34*, 27656.

Pholiota togularis (Bull. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 738.

Agaricus (*Pholiota*) *togularis* Bull. ex Fr., Kalchbrenner (1880 b) 115.

Somerset East, *MacOwan*, Kew.

Pholiota unicolor (Vahl ex Fr.) Gill.

Saccardo, Syll. Fung. V : 759.

Agaricus (*Pholiota*) *unicolor* Vahl. ex Fr., Cooke (1879 b) 69 ; Kalchbrenner (1880 b) 115.

on trunks, Inanda, *Medley Wood 390*, 10249 ; on decaying wood, Boschberg, *MacOwan*.

Pluteolus reticulatus (Pers. ex Fr.) Gill.

on decaying grass, Pretoria, *Howlett*, 2125, *Doidge*, 30582.

RHODOSPORAE.

Claudopus proteus Kalchbr.

von Thuemen (1878 b) ; Saccardo, Syll. Fung. V : 734.

Agaricus (*Crepidotus*) *proteus* Kalchbrenner, von Thuemen (1876 b) 424.

on **Populus** sp., dead twigs, de Beer's Rust, *Doidge*, 30540.

Vitis vinifera Linn., dead stems, Cape.

on damp wood, near Somerset East, *MacOwan 1202* (Thuem. Myc. univ. 503) 22045, Kew.

Claudopus variabilis (Pers. ex Fr.) Gill.

on dead branches, Boschberg, *MacOwan 1075* (S.A.M. 35028) 20929.

" Some authors place this species in Crepidotus, as the spores are more yellowish than pink, and are not warted." E. M. Wakefield.

Clitopilus prunulus (Scop. ex Fr.) Quél.

on lawn, Pretoria, *Fouché*, 14522 : Fountains, *Bottomley*, 18126 : on ground under trees, Silverton Road, *Reinecke*, 23204 : Pretoria, *Reinecke*, 23134, *Punt*, 14524, *Lansdell & Bosman*, 25350 : under wattles, Klapper Klop, *King*, 30625.

Entoloma erophilum (Fr.) Karst.

Cape, *MacOwan 1365*, Kew.

Entoloma lividum (Bull. ex Fr.) Quél.

in humus, Boschberg, *MacOwan 1300* (S.A.M. 34907).

Entoloma microcarpum (Berk. & Br.) Sacc.

on soil from termite nests, Pretoria, *Stent*, 14683, Kew : Klerksdorp, *Fuller*, 14268, *Sr. de Victoria*, 23358 : Pretoria, *Bottomley*, 20301, *Mogg*, 24939 ; Maritzburg, *Cheek* (Rump 321) 28680 : Meintjies Kop, *Goldblatt*, 20681 ; Johannesburg, *Moss*, 33133.

Entoloma sagittaeforme (Kalchbr. & Cooke) Sacc.

Saccardo, Syll. Fung. V : 687.

Agaricus (*Entoloma*) *sagittaeformis* Kalchbr. & Cooke, Kalchbrenner (1880 b) 114.

Inanda, *Medley Wood 357, 344*, 10262, 10258, Kew.

Nolanea casta (MacOwan) Sacc.

Saccardo, Syll. Fung. V : 726.

Agaricus (*Nolanea*) *castus* MacOwan, Kalchbrenner (1880 b) 114.

on grass between shrubs, Boschberg, *MacOwan 1360* (S.A.M. 34291).

Nolanea leuciscus Kalchbr.

? nom. nud.

amongst grass, under bushes, Boschberg, *MacOwan 1374* (S.A.M. 34927) Kew.

Pluteus cervinus (Schaeff. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 665.

Agaricus (*Pluteus*) *cervinus* Schaeff. ex Fr., Kalchbrenner (1880 b) 114.

on decaying trunks, Boschberg, *MacOwan*.

Pluteus pustulosus (Fayod) Killermann.

Killermann (1928) 246.

Schinzinia pustulosa Fayod (1890) 227 : Saccardo, Syll. Fung. XI : 44.

in sandy places, Olukonda, *Schinz*.

Volvaria bombycina (Schaeff. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 656.

Agaricus (*Volvaria*) *bombycinus* Schaeff. ex Fr., Kalchbrenner (1880 b) 114.

on stems of **Cussonia** sp. in bush, Boschberg, *MacOwan 1416* (S.A.M. 34898) Kew.

Volvaria pusilla (Pers. ex Fr.) Quél.

on soil, Wonderboom, *Bosman*, 23691.

Volvaria speciosa (Fr.) Gill.
on ground or humus, Pretoria, *Parkes*, 21190, *Doidge*, 20576 ; Daspoort, *Kresfelder*, 30578.

Volvaria sp.
Cheesman (1909) 409.
on fallen branch of Baobab tree, Victoria Falls, East Ferry, *Cheesman*.

PORPHYROSPORAE.

Hypholoma Candolleanum (Fr.) Quél.
Agaricus (*Hypholoma*) *candolleanus* Fr., Kalchbrenner (1880 b) 132.
on trunks in bush, Boschberg, *MacOwan 1229* (S.A.M. 35037) 22047, Kew.

Hypholoma capnolepis (Kalchbr.) Sacc.
Saccardo, Syll. Fung. V : 1033.
Agaricus (*Hypholoma*) *capnolepis* Kalchbrenner (1880 b) 132.
Inanda, *Medley Wood 337*, 10212, Kew.

Hypholoma capnoides (Fr.) Quél.
? on trunks of **Pinus**, Kirstenbosch, *V. A. Putterill*, 14836.

Hypholoma fasciculare (Huds. ex Fr.) Quél.
Saccardo, Syll. Fung. V : 1029 ; Simpson & Talbot (1946) 134.
Agaricus (*Hypholoma*) *fasciculare* Huds, ex Fr., Berkeley (1844) 186 ; Kalchbrenner (1880 b) 132.
on wood, Durban, *Medley Wood 193 ;* Cape, *Harvey ;* foot of Lion's Head, *Eaton*, Kew ; Kloof, Cape Town, *E. P. Phillips*, Kew ; Town Bush Valley, *Rump*, 27619 ; on old stumps, Kirstenbosch, Bottomley, 24376 ; Rosebank, *Bottomley*, 24823 ; on log, Deepwalls, *Bottomley*, 30997 ; on stump of felled *Pinus taeda*, Tsitsikama, *Laughton*, 29718 ; among pine trees, Newlands, *Marloth*, 22012 ; on dead stump, Qudeni Forest, *Simpson & Talbot* 35014.

Hypholoma hydrophilum (Bull ex Fr.) Quél.
? on ground under dead shrub, Pretoria, *Bottomley*, 18143.

Psalliota abruptibulba (Peck) Kauffm.
on ground, Pretoria, *Reinecke*, 23100, *Doidge*, 30563.

Psalliota africana Fayod.
Fayod (1890) 225 ; Saccardo, Syll. Fung. XI : 69.
on ground in sandy places, around Olukonda, *Schinz*.

Psalliota amboënsis Fayod
Fayod (1890) 224 ; Saccardo, Syll. Fung. XI : 70.
on sandy soil, near Olukonda, *Schinz*.

Psalliota arvensis (Schaeff. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 994 ; Hennings (1906) 701.

Agaricus (*Psalliota*) *arvensis* Schaeff. ex Fr., Cooke & Kalchbrenner (1881) 26.

in grassy places, Natal, *Medley Wood 409*, 10267 ; Boroma, *Menyharth ;* Johannesburg, *Knox-Davies*, 20655 ; Pretoria, *Goldblatt*, 20664, *Fouche*, 14528, *Barrett*, 30623 ; common in wet weather.

Var. **grossa** (Berk.)

Agaricus (*Psalliota*) *arvensis* Schaeff. ex. Fr. var. *grossus* Berkeley (1843 b) 512.

on ground, Uitenhage, *Zeyher 95*.

Psalliota augusta (Fr.) Quél.

on ants' nests in fields, ? Somerset East, *MacOwan 1421*, Kew.

Psalliota campestris (Linn. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 997 ; Medley Wood (1899) 6 ; Marloth (1913) 23 ; Verwoerd (1931 a) 300.

Agaricus campestris Linn., Thunberg (1800) 182, (1823) 75 ; J. Phillips (1831) 161.

Agaricus (*Psalliota*) *campestris* Linn. ex Fr., Berkeley (1876 a) 173 ; Kalchbrenner (1880 b) 13'.

in hills near Cape Town, *Thunberg ;* in vineyards at Wynberg, *Eaton ;* Boschberg and in plains nearer the sea, *MacOwan 1010* (S.A.M. 35047) 22074 ; Bazuja, *Baur ;* Natal, *Medley Wood 244* (S.A.M. 34935) ; Bloemfontein, *Verwoerd* and *Potts*, 12985 ; Hopevale, *Morgan ;* Skinner's Court, *Coetzee*, 1956 ; Garstfontein Road, *Doidge*, 30618 ; Pretoria, *Parkes*, 21197 ; Wonderboom, *Reinecke*, 23695 ; Cambridge, *McNish*, 29942 ; Knysna, *J. Phillips*.

Var. **alba** (Viv.) W. G. Sm.

on ground, Garstfontein, *Doidge & Hean*, 30589 ; Pretoria, *L. W. Doidge*.

Var. **pratensis** (Vitt.)

Agaricus (*Psalliota*) *campestris* Linn. ex Fr. (*b*) *praticola*, Kalchbrenner (1880 b) 131.

on manured ground, Somerset East, *MacOwan 1428* (S.A.M. 34934).

Var. **rufescens** (Fr.) W. G. Sm.

South Africa, *MacOwan 1193*, Kew (sub *Psalliota rufescens* Fr.).

Psalliota comtula (Fr.) Quél.

Agaricus comtulus Fr., Nel (1942) 61.

on lawns, Pretoria, *Bottomley*, 20405, 30559, *Doidge*, 30556, 30557, *Parkes*, 21231 ; Stellenbosch, *v. d. Byl 1248*.

Psalliota Dialeri Bres. & Torrend

Torrend (1905) 217.

Agaricus Dialeri (Bres. & Torrend) Sacc. & Trott., Syll. Fung. XXI : 206.

on ground near goat kraals, Zumbo, *Dialer*.

Psalliota dulcidula Schulz.

in grass, Pretoria, *Parkes*, 21117.

Psalliota exserta (Viv.) Rea

in dense bush, Boschberg, *MacOwan 1193* (S.A.M. 35046).

Psalliota Kiboga P. Henn.

P. Hennings (1906) 701.

Boroma, *Menyharth.*

Psalliota placomyces (Peck) Kauffm.

under poplars, de Beer's Rust, *Doidge*, 30564, 30624 ; Pretoria, 34430.

Psalliota pratensis (Schaeff. ex Fr.) Quél.

on ground, Pretoria, *Parkes*, 13161, *Reinecke*, 23882.

Var. **australis** (Berk.)

Agaricus (*Psalliota*) *pratensis* Schaeff. ex Fr. var. *australis* Berkeley (1843 b) 512 ; Kalchbrenner (1880 b) 131 ; Saccardo, Syll. Fung. V: 997.

on the ground, Uitenhage, *Zeyher 93;* on old ant heaps, Somerset East, *MacOwan 1421.*

Psalliota Rodmani (Peck.) Kauffm.

? in open fields, Rietfontein, Pretoria, *Venter*, 14492 ; Rustenburg, *Playford*, 14511.

Psalliota silvatica (Schaeff. ex Secretan) Quél.

Agaricus (*Psalliota*) *sylvaticus* Schaeff. ex Secretan, Kalchbrenner (1880 b) 131 ; Cooke & Kalchbrenner (1881) 26 ; Saccardo, Syll. Fung. V : 1000.

on ground in woods, Inanda, *Medley Wood 480*, 10227, 11176 Kew ; Boschberg, *MacOwan 1193*, Kew ; Somerset East, *MacOwan 1432*, 20933.

Psalliota sylvicola (Vitt.) Morot

under wattles, Hopevale, *Morgan ;* Wonderboom, *Doidge.*

Psathyra corrugis (Pers. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 1061.

Agaricus (*Psathyra*) *corrugis* Pers. ex Fr., Kalchbrenner (1880 b) 132.

in damp, shady spots, banks of Klein Vis Rivier, *MacOwan 1322*, *1391*, 20931 ; Pretoria, *Parkes*, 23137.

Psathyra noli-tangere Fr.

Hypholoma noli-tangere (Quél.) Fr., Torrend (1905) 218.

? Moçambique (Torrend).

Psathyra spadiceo-grisea (Schaeff. ex Berk.) Quél.

Saccardo, Syll. Fung. V : 1065.

Agaricus (*Psathyra*) *spadiceo-griseus* Schaeff. ex Berk., Kalchbrenner (1880 b) 133.

on bark, Inanda, *Medley Wood 323*, *336*, 10215, 10217, Kew ; on rotten wood, Somerset East, *MacOwan 1306.*

Psilocybe areolata (Klatzsch) Sacc.

? Verulam, *Medley Wood 491*, Kew.

Psilocybe atro-rufa (Schaeff. ex Fr.) Quél.

Agaricus (*Psilocybe*) *atrorufus* Schaeff. ex Fr., Kalchbrenner (1880 b) 132 ; Cooke & Kalchbrenner (1881) 27.

Deconica atrorufa (Schaeff. ex Fr.) Saccardo, Syll. Fung. V : 1059.

on ground in bush, Inanda, *Medley Wood 507*, *508*, *522*, 10241, 10244, 11177, Kew ; Somerset East, *MacOwan 1378* (S.A.M. 35024).

Var. **montanus** (Pers. ex Fr.).

Agaricus (*Psilocybe*) *atrorufus* var. *montanus* Pers. ex Fr., Kalchbrenner (1880 b) 132.

on ground in bush, Natal, *Medley Wood 182*.

Psilocybe ericaea (Pers. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 1044.

Agaricus (*Psilocybe*) *ericaeus* Pers. ex Fr., Kalchbrenner (1880 b) 132.

Somerset East, *MacOwan*.

Psilocybe foenisecii (Pers. ex Fr.) Quél.

Agaricus (*Psilocybe*) *foenisecii* Pers. ex Fr., Kalchbrenner (1880 b) 132.

in gardens, Somerset East, *MacOwan 1368* (S.A.M. 34759) : in grass, near cow dung, Klein Vis Rivier, *MacOwan 1323*, 20935 : Boschberg, *MacOwan 1006*, *1368 b*, *1372*, (Rabenh. Fung. Eur. 3237) 22075 ; Bloemfontein, *Potts*, 12969, 12971.

Psilocybe semilanceata (Fr.) Quél.

Saccardo, Syll. Fung. V : 1051.

Agaricus (*Psilocybe*) *semilanceatus* Fr., Kalchbrenner (1880 b) 132.

on fertile soil, amongst bushes, Boschberg, *MacOwan*.

Psilocybe squalens (Fr.) Karst.

Saccardo, Syll. Fung. V : 1054.

Agaricus (*Psilocybe*) *squalens* Fr., Kalchbrenner (1880 b) 132 : Cooke (1879 b) 69.

around trunks, Natal, *Medley Wood 383*, 10219.

Psilocybe taediosa (Kalchbr.) Sacc.

Saccardo, Syll. Fung. V : 1044.

Agaricus (*Psilocybe*) *taediosus* Kalchbr., Kalchbrenner & Cooke (1880) 17 : Kalchbrenner (1880 b) 132.

on the ground, Inanda, *Medley Wood 393*, 10254, Kew.

Psilocybe uda (Pers. ex Fr.) Gill.

Saccardo, Syll. Fung. V : 1045.

Agaricus (*Psilocybe*) *udus* Pers. ex Fr., Kalchbrenner (1880 b) 132.

on flooded ground, near the Klein Vis Rivier, *MacOwan 1366*, *1367*, *1390* (S.A.M. 35023), 20911, Kew.

Stropharia albo-maculata Kalchbr. & MacOwan.

? nom. nud.

in bush, Boschberg, *MacOwan* 1324 (S.A.M. 35038).

Stropharia coronilla (Bull. ex Fr.) Quél.

in pine woods, Rondebosch, *MacOwan 1452*, 20940, Kew.

Stropharia melanosperma (Bull. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 1015, (as *Stropharia melasperma*).
as *Agaricus* (*Stropharia*) *melaspermus* Bull. ex Fr., Kalchbrenner (1880 b) 131.
Somerset East, *MacOwan 1389*, 20936, Kew.

Stropharia obturata (Fr.) Quél.

Saccardo, Syll. Fung. V : 1014.
Agaricus (*Stropharia*) *obturatus* Fr., Kalchbrenner (1880 b) 132.
Somerset East, *MacOwan*.

Stropharia olivaceo-flava (Kalchbr. & MacOwan) Sacc.

Saccardo, Syll. Fung. V : 1026.
Agaricus (*Stropharia*) *olivaceo-flava* Kalchbr. & MacOwan, Kalchbrenner (1880 b) 131; Cooke & Kalchbrenner (1881) 26.
in sandy places, which are often flooded, near Klein Vis Rivier, *MacOwan 1385*, 20912, Kew and *MacOwan 1324* ; Inanda, *Medley Wood 415*, *502*, 10230, 11216, Kew : Natal, *Medley Wood 244*, 10207.

Stropharia semiglobata (Batsch ex Fr.) Quél.

Saccardo, Syll. Fung. V : 1022.
Agaricus (*Stropharia*) *semiglobatus* Batsch ex Fr., Kalchbrenner (1880 b) 132.
on old dung in fields, Somerset East, *MacOwan 1006 b* (S.A.M. 35044) 20925 ; Keurboom near Cape Town, *E. L. Stephens*, 24362.

MELANOSPORAE.

Anellaria separata (Linn. ex Fr.) Karst.

Saccardo, Syll. Fung. V : 1125.
Agaricus (*Panaeolus*) *separatus* Linn. ex Fr., von Thuemen (1878) 353 ; Kalchbrenner (1880 b) 133.
on old cow dung, Boschberg, *MacOwan 1007* (Thuem. Myc. univ. 1202 ; S.A.M. 35012) 22067, Kew ; Verulam, *Medley Wood 376*, 10204 ; Natal, *Medley Wood 460*, 10224.

Coprinus atramentarius (Bull. ex Fr.) Fr.

on ground, Pretoria, *Lansdell*, 21241, *Native collector*, 23201 ; Town Bush Valley, *Rump*, 27617 ; Bloemfontein, *Potts*, 12997, 12999.
on timber in storage, Johannesburg, *Weintroub* (T.R.L. 305).

Coprinus Cheesmani Th. Gibbs

Gibbs (1909) 413 ; Saccardo, Syll. Fung. XXI : 225.
on hippopotamus dung, near Victoria Falls, *Cheesman*.

Coprinus cinereus (Schaeff. ex Fr.) S. F. Gray

Kalchbrenner (1880 b) 133 ; Saccardo, Syll. Fung. V : 1088.
on cow dung, Somerset East, *MacOwan 1214 pr. p.*, Kew (sub *Coprinus fimetarius L.*).
on grass tufts in greenhouse, Pretoria, *Kresfelder*, 30273.

Coprinus comatus (Müll ex Fr.) S. F. Gray

E. P. Phillips (1908) 369.

at foot of Papegaaisberg, Stellenbosch, *Garside*, Kew ; Cape Town, *Saxton* (S.A.M. 1320) ; Sunnyside, Pretoria, *Pole Evans*, 2041 ; Pretoria, *Native collector*, 23220 ; Wonderboom, *Lansdell ;* Johannesburg, *Moss ;* common around Pretoria and Johannesburg in wet seasons.

Var. **ovatus** (Schaeff. ex Fr.) Quél.

Coprinus ovatus Schaeff. ex Fr., Kalchbrenner (1880 b) 133 ; Saccardo, Syll. Fung. V : 1079.

in damp sand, after flooding by the river, Klein Vis Rivier, *MacOwan 1046*.

Coprinus curtus Kalchbr.

von Thuemen (1876 b) 424 ; Kalchbrenner (1880 b) 133 ; Saccardo, Syll. Fung. V : 1110.

in humus and on old cow dung, between shrubs, at foot of the Boschberg, *MacOwan 1014* (Thuem. Myc. univ. 403) 22043, Kew ; on rock rabbit dung, Inanda, *Medley Wood 526*, 10458, Kew.

Coprinus digitalis (Batsch ex Fr.) Fr.

Kalchbrenner (1881) 53 ; Saccardo, Syll. Fung. V : 1095.

on dung heap, Verulam, *Medley Wood 384*, 10464.

Coprinus ephemerus (Bull. ex Fr.) Fr.

Saccardo, Syll. Fung. V : 1106.

Agaricus (*Coprinus*) *ephemerus* Bull. ex Fr., Berkeley (1843 b) 513 ; Kalchbrenner (1880 b) 134 ; Cooke & Kalchbrenner (1881) 26.

on dung, Inanda, *Medley Wood 423*, 10463, Kew ; near Klein Vis Rivier, *MacOwan 1375;* on ground, Uitenhage, *Zeyher 113*.

Coprinus flocculosus (DC. ex Fr.) Fr.

Klein Vis Rivier, *MacOwan 1046* (S.A.M. 34528).

Coprinus macrorhizus (Pers.) Rea

on decayed grass, Pretoria, *Doidge*, 30602, and *Parkes ;* in mushroom beds, Pretoria, *Winckworth*, 33246.

Coprinus micaceus (Bull. ex Fr.) Fr.

von Thuemen (1878 a) 353 ; Kalchbrenner (1880 b) 133 ; Saccardo, Syll. Fung. V : 1090.

on soil near tree stumps, Klein Vis Rivier, *MacOwan 1214* (Thuem. Myc. univ.1903 ; S.A.M. 34531) Kew ; Bazuja, *Baur ;* Pretoria, *Parkes*, 21096, *Bottomley*, 21116, *Reinecke*, 23099, *Watson*, 25906 ; Rondebosch, *E. L. Stephens*, 26653.

Var. **truncorum** (Schaeff. ex Fr.) Quél.

Coprinus truncorum (Schaeff. ex Fr.) Fr., Kalchbrenner (1880 b) 133. Saccardo, Syll. Fung. V : 1092.

on dead trunks of trees, Natal, *Medley Wood 333*, 10461 ; near river bank, Klein Vis Rivier near Somerset East, *MacOwan 1214*.

Coprinus niveus (Pers. ex Fr.) Fr.

Cooke (1879) 70 ; Saccardo, Syll. Fung. V : 1088.
on dung, Verulam, *Medley Wood 384*, 9470 ; Fountains, *Bottomley*, 21196.

Coprinus plicatilis (Curt. ex Fr.) Fr.

Kalchbrenner (1880 b) 134 ; Saccardo, Syll. Fung. V : 1108.
on ground, Botanical Gardens, Durban, *Medley Wood 698*, 10459 ; Durban, *Medley Wood 367*, 10457 ; Somerset East, *MacOwan 1375* (S.A.M. 34525) ; Pretoria, *Goldblatt*, 21193.

Coprinus punctatus Kalchbr. & Cooke.

Kalchbrenner & Cooke (1880) 17 ; Kalchbrenner (1880 b) 133 ; Saccardo, Syll. Fung. V : 1093.
on ground, Inanda, *Medley Wood 413* (as *Medley Wood 415* in Kalchbr. l.c.) 10462, Kew.

Coprinus radiatus (Bolt. ex Fr.) S. F. Gray

Kalchbrenner (1880 b) 133 ; Saccardo, Syll. Fung. V : 1101.
on dung, Somerset East, *MacOwan*, Kew.

Coprinus stercorarius (Scop. ex Fr.) Fr.
on dung, Kentani, *Pegler 1965*, 8839.

Coprinus sp.

Th. Gibbs (1909) 415.
Matopo Hills, *Cheesman*.

Coprinus sp.

Medley Wood (1898) 17.
Natal, *Medley Wood 679*, 10460.

Montagnites Candollei Fr.

Schultze (1907) 705.
on red sand, and also on grey silt, limestone and dolomite, between Kakhea and Tehututu, *Schultze 366 :* top of Langeberg, Andriesfontein, Barkly West, *Acocks*, 28643 ; Mauritzfontein, near Kimberley, *Acocks*, 28639 ; van Wyksfontein, Barkly West, *Acocks*, 28627 ; Cornfort Hill, Barkly West, *Acocks*, 28642 ; Benaauwdheidsfontein, Kimberley, *Acocks*, 28629 ; Pienaarsfontein and Hondjeskuil, Barkly West, *Acocks*, 28628 ; Knockbarragh, Kimberley, *Acocks*, 28626 ; Bermolli, Kimberley, *Acocks*, 28625; Kaapplateau, Taungs, *Acocks*, 28670.

Panaeolus caliginosus (Jungh.) Gill.

Medley Wood (1898) 16.
Agaricus (*Panaeolus*) *caliginosus* Jungh., Cooke & Kalchbrenner (1881) 27.
amongst grass, Inanda, *Medley Wood 472*, *515*, 10221, 10226, Kew; on ground, Bloemfontein, *Potts*, 12976.

Panaeolus campanulatus (Linn. ex Fr.) Quél.

Saccardo, Syll, Fung. V : 1121.

Agaricus (*Panaeolus*) *campanulatus* Linn. ex Fr.; Kalchbrenner (1880 b) 133.

on manured ground, Boschberg, *MacOwan 1012;* on gardens and lawns, Pretoria, *Doidge*, 30580, *Bottomley*, 30600, 30626.

Panaeolus fimicola (Fr.) Quél.

Saccardo, Syll. Fung. V : 1124.

Agaricus (*Panaeolus*) *fimicolus* Fr., Kalchbrenner (1880 b) 133.

on dung, Somerset East, *MacOwan 1083*, *1089*, 22066.

Panaeolus papilionaceus (Bull. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 1122.

Agaricus (*Panaeolus*) *papilionaceus* Bull. ex. Fr., Cooke (1879) 69 ; Kalchbrenner (1880 b) 133.

on horse dung, Verulam, *Medley Wood 385*, 10253, Kew ; on dung, Natal, *Medley Wood 379*, *391*, *397* ; Bloemfontein, *Potts*, 12966 ; in bush, Boschberg, *MacOwan 1012* (S.A.M. 35017).

Panaeolus retirugis (Fr.) Gill.

on horse dung and in open fields, Bloemfontein, *Potts*, 12996 ; Keurboom Park, Rondebosch, *Bottomley*, 24370 ; Maritzburg, *Leggat*, 27618.

Panaeolus solidipes Peck.

on manure heap, Pretoria, *Wickens*, 14530, *Doidge*, 15440.

Psathyrella disseminata (Pers. ex Fr.) Quél.

Saccardo, Syll. Fung. V : 1134.

Agaricus (*Psathyrella*) *disseminatus* Pers. ex Fr., Kalchbrenner (1880 b) 133 ; Cooke & Kalchbrenner (1881) 27.

Psathyra disseminata Fr., Cooke (1879 b) 70.

on damp ground, Inanda, *Medley Wood 102*, *400*, 10252 ; on old stumps, Inanda, *Medley Wood 490*, 10233, 11183, Kew ; Botanical Gardens, Durban, *Medley Wood*, 4083 ; on lawn, Pretoria, *Dyer*, 30610, *Parkes*, 21090 ; under Poplars, Wonderboom, *Bottomley & Doidge*, 28733.

Psathyrella gracilis (Fr.) Quél.

Saccardo, Syll. Fung. V : 1127.

Agaricus (*Psathyrella*) *gracilis* Fr., Kalchbrenner (1880 b) 133.

in fertile places, Somerset East, *MacOwan 1202*, *1379* ; Pretoria, *Parkes*, 21095.

Psathyrella hydrophora (Bull. ex Fr.) Quél.

under shrubs in bush, Boschberg, *MacOwan 1089* (S.A.M. 35007).

Psathyrella prona (Fr.) Gill.

Agaricus (*Psathyrella*) *pronus* Fr., Cooke & Kalchbrenner (1881) 27.

on ground in bush, Inanda, *Medley Wood 499*, *511*, 10238, 10222, Kew.

Psathyrella subtilis (Fr.) Quél.

Saccardo, Syll. Fung. V : 1135.

Agaricus (*Psathyrella*) *subtilis* Fr., von Thuemen (1876 b) 568 : Cooke (1879) 69.

on cow dung, *Medley Wood 382*, 10208, Kew ; near Somerset East, *MacOwan 1014* (S.A.M. 35010).

Psathyrella trepida (Fr.) Gill.

on damp soil, Pretoria, *Howlett*, 21237, *Kresfelder*, 21228, *Reinecke*, 23145, *Louwrens*, 28511.

Psathyrella sp.

Agaricus (*Psathyrella*) Kalchbrenner (1880 b) 133.

in humus, in open places in bush, Somerset East, *MacOwan 1373*, *1376* (S.A.M. 34539).

GASTEROMYCETEAE.

Hymenogastrales.

HYMENOGASTRACEAE.

Gymnoglossum radiatum (Lloyd) Bottomley

Bottomley (1948) 499.

Hymenogaster radiatus Lloyd (1924) 1304 ; Verwoerd (1925 a) 166 ; Stevenson & Cash (1936) 198 ; Hopkins (1938 a) 166.

Dendrogaster radiatus (Lloyd) Zeller & Dodge, Dodge & Zeller (1934) 688.

in leaf mold at foot of tree, Salisbury, *Eyles 2530* (Lloyd Myc. Coll. 30493 ; Rh. 3826) 17795.

Hydnangium carneum Wallr.

Bottomley (1948) 497.

Octaviania carnea (Wallr.) Corda, Lloyd (1924) 1319 ; Verwoerd (1925 b) 164 ; van der Byl (1925 b) 195 ; J. Phillips (1931) 161 ; Nel (1942) 67.

buried in humus, Stellenbosch Flats, *Duthie 325* (v. d. Byl 2096) 28871 ; Knysna, *J. Phillips*.

Hydnangium nigricans Kalchbr.

Kalchbrenner (1882 a) 107; Sacc. Syll. Fung. XI: 172; Dodge & Zeller (1936) 592; Bottomley (1948) 498.

in grass under Acacia trees, at foot fo Boschberg, *MacOwan 1211*, Kew & Berlin.

Hymenogaster albellus Mass. & Rodway

Dodge & Zeller (1934) 669 ; Bottomley (1948) 492.

as *Hymenogaster lilacinus* Tul., Lloyd (1924) 1304, 1319 ; Verwoerd (1925 a) 166. Nel (1942) 67.

in soil, Stellenbosch, *Duthie 209* (Lloyd Myc. Coll) 2886, *Duthie 324*, 28867 ; Cape Town, *Péringuey*, 1735 ; Groote Schuur, *J. Acocks* (E. L. Stephens 259) 35544.

Hymenogaster arenarius Tul.

Lloyd (1919) 889; Bottomley (1948) 483.

in sandy soil in woods, without locality, *Duthie*.

Doubtful Record.

Hymenogaster levisporus Massee & Rodway

Bottomley (1949) 492.

in soil, Kirstenbosch, *E. L. Stephens 368*, 27674.

Hymenogaster zeylanicus Petch.

Bottomley (1948) 493.

on damp, sandstone walls of a dark cave, Noodsberg, *Lawrence*, 28873.

Melanogaster ambiguus (Vitt.) Tul.

Bottomley (1948) 498.

under Hydrangeas, in shade of oak trees, Howick, *Gill*, 25506.

Octaviania africana Lloyd

Lloyd (1922) 1142; Verwoerd (1925 b) 164; Nel (1942) 67; Bottomley (1948) 495.

Sclerogaster africanus Lloyd (1916 d) L. 63 : 4, nom. nud. ; van der Byl (1925 b) 165 ; J. Phillips (1931) 161.

Arcangeliella africana (Lloyd) Zeller & Dodge (1935) 365, (1936) 614.

in rich humus soil in forest, Forest Hall, Knysna, *Duthie 97* (v. d. Byl 2097 ; Lloyd Myc. Coll. 7198) 31350.

Octaviania flava (Rodway) G. H. Cunn.

Bottomley (1948) 496.

on damp sandstone wall of dark cave, Noodsberg, *Lawrence*, 28872.

Protubera africana Lloyd

Lloyd (1920) 960, 987 ; van der Byl (1922 d) 286 ; Verwoerd (1925 b) 163 ; Fischer (1933) 28 ; Stevenson & Cash (1936) 200 ; Zeller (1939) 22 ; Nel (1942) 67 ; Bottomley (1948) 499.

om damp, clayey soil, Papegaaisberg, *Duthie 233* (v. d. Byl 2094 ; Lloyd Myc. Coll. 22143), *Duthie 243* (Stell. 282 ; v. d. Byl 2331 ; Lloyd Myc. Coll. 22144).

Doubtful species ; probably a phalloid egg (Bottomley l.c.).

Rhizopogon capensis Lloyd ex Verwoerd

Verwoerd (1925 a) 165 ; Lloyd (1924) 1321, nom. nud.; Bottomley (1948) 488.

in ground under pine trees, Pinelands, *E. L. Stephens 335 ;* Stellenbosch, *Verwoerd ;* Stellenbosch, *Duthie* (E. L. Stephens 416).

Rhizopogon luteolus Fr.

Lloyd (1915 a) L. 60 : 3, (1923) 1171, (1924) 1304 : Zeller & Dodge (1918) 10 ; vander Byl (1922 d) 286 ; Verwoerd (1925 b) 165, (1931 a) 300 ; Bottomley (1948) 486.

as *Rhizopogon pachyphloeus* Zeller & Dodge (1918) 9.

as *Melanogaster MacOwanianum* Kalchbr. in Herb. Kew.

in ground, nr. Johannesburg, *Pole Evans*, 1903 ; Stellenbosch, *Duthie 77* (Lloyd Myc. Coll.) 31335, Kew ex Herb. C. G. Lloyd : Stellenbosch Flats, *Duthie 249*, 31430 ; near Somerset East, *MacOwan* (Rabenh. Fung. Eur. 3436 ; Mo. Bot. Gard. Herb. 5646) 20950, Kew ; Bloemfontein, *Verwoerd.*

Rhizopogon niger (Lloyd) Zeller & Dodge.

Zeller & Dodge (1929) 122 ; Bottomley (1948) 487.

Hysterangium niger Lloyd (1923) 1173 ; Verwoerd (1925 b) 163 ; van der Byl (1925 b) 163 ; Stevenson & Cash (1936) 198.

on ground, Knysna, *Duthie* (Lloyd Myc. Coll. 22394 Type ; Dodge Herb. 353 ; Zeller Herb. 7256).

Rhizopogon radicans Lloyd

Lloyd (1922) 1160, 1174 ; Ve rwoerd (1925 b) 165 ; Stevenson & Cash (1936) 200 ; Bottomley (1948) 488.

in ground, Knysna, *Duthie* (Lloyd Myc. Coll. 50861).

Rhizopogon rubescens Tul.

Massee (1889) 39 ; Lloyd (1920) 960, (1922) 1122, 1166, (1924) 1319 ; van der Byl (1922 d) 286 ; Verwoerd (1925 b) 164 ; Bottomley (1948) 487.

on ground, Cape Town, *MacOwan*, Kew ; Stellenbosch, *Duthie 337* (v. d. Byl 475) 31494 ; Sterkstroom, *Duthie 210*, 31399 ; Pinelands, *E. L. Stephens*, 24845 ; Jessievale, *D.F.O.*, 17095 ; du Toits Park, Stellenbosch, *Duthie 245*, 31425 ; Keurboom Park, Newlands, *E. L. Stephens 336 ;* near Pipe Track, Newlands, *P. C. de Kock* (E. L. Stephens 464) ; University grounds, Rosebank, *E. L. Stephens 463.*

Sclerogaster salisburiensis Verw.

Verwoerd (1926 b) 293 ; Hopkins (1938 a) 115 ; Bottomley (1948) 490.

on ground in bushveld, Salisbury, *Eyles 4104* (Stell. 213 ; v. d. Byl 2224).

SECOTIACEAE.

Gyrophragmium Delilei Mont.

Fischer (1933) 116 ; Bottomley (1948) 508.

on ground, Brackenfel, *Acocks*, Kew ; Olifantshoek Road, Kuruman Distr., Acocks, 28640, Kew ; Kimberley, *Acocks*, 28624, 28635, Kew ; Knockbarragh, Barkly West, *Acocks*, 28634.

MacOwanites agaricinus Kalchbr.

Kalchbrenner (1876) 116, (1882 a) 107 ; Sacc. Syll. Fung. VII : 179 ; Lloyd (1923) 1198 ; Zeller & Dodge (1919) 58, (1936) 636 ; Verwoerd, (1925 b) 166 ; Fischer (1898) 299, (1933) 111; Ramsbottom (1942) 336; Bottomley (1948) 503.

MacOwania agaricina Berkeley (1876 b) 248, (1876 c) 785.

amongst grass at foot of trunks of *Acacia Karroo*, in fields near Somerset East, *MacOwan 1211*, 22087, Kew & Upsala.

Polyplocium inquinans Berk.

Berkeley (1843 a) 202 ; Montagne (1843 b, c) ; Sacc. Syll. Fung. VII : 55 ; Lloyd (1924) 1318, (1925) 1341 ; Verwoerd (1925 b) 16, 40 ; Fischer (1933) 115 ; Bottomley (1948) 506.

Gyrophragmium inquinans (Berk.) Lloyd (1904 a) 197.

on banks of Orange River, *Burke & Zeyher ;* South Africa, without locality, Kew; Malcomess, Knapdaar, *Gideon Joubert*, 14504 ; Burghersdorp, *Gideon Joubert*, 28739 b; Armoeds, vlakte, Vryburg, *Pole Evans*, 11856 ; Lake Chrissie, *Pole Evans*, 18115.

Secotium Gueinzii Kunze

Kunze (1840) 322 ; Berkeley (1843 a) 201, (1843 b) 523 ; Corda (1854) 29 ; Sacc. Syll. Fung. VII : 52 ; Verwoerd (1925 b) 16, 40; Fischer (1933) 114; Bottomley (1948) 501.

in sand, Cape, *Gueinzius ;* Uitenhage, *Zeyher 9 ;* Brackenfel, Acocks (E. L. Stephens 159, 307) 26655 ; Stikland, *J. Acocks* (E. L. Stephens 230) ; van Schuur's Drift, *Mathews & E. L. Stephens* (E. L. Stephens 528) 35531 ; Signal Hill, *Foley* (S.A.M.).

Secotium obtusum Lloyd

Lloyd (1924) 1318, nom. nud: Stevenson & Cash (1936) 193; Bottomley (1948) 502.
on open ground, Malcomess, Knapdaar, *Gideon Joubert* (Lloyd Myc. Coll. 24876) 18113. Type; in grey silt, Cornforth Hill, *J. Acocks*, 28644.

PHALLALES.

CLATHRACEAE.

Anthurus Archeri (Berk.) Ed. Fisch.

Bottomley (1948) 522.
Anthurus MacOwani Marloth (1913) 22, Pl. 3; Lloyd (1916 b) 570, (1917 c) 690, (1917 a) L. 66 : 3, 8; van der Byl (1922 d) 286; Nel (1942) 71; Cunningham (1944) 101.
on ground, often under oak trees, Stellenbosch, *Duthie 173* (E. L. Stephens 411) 31381, *Duthie 343*, 31496; Oranjezicht, *Bottomley*, 24371; Papegaaisberg, *de Vos;* Stellenbosch, *v. d. Byl 2101, 2332*; Kirstenbosch, *J. Acocks* (E. L. Stephens 334); grounds of Cape Town University, *E. L. Stephens 552*; Oranjezicht, *Rennie* and *E. L. Stephens 168, 417*; Somerset West, *Pillans*.

Aseroe rubra Labill.

Bottomley (1948) 526.
on ground, Cape Town, *Saxton*, Kew.
Rather doubtful record.

Clathrella Baumii (P. Henn.) Ed. Fischer.

Ed. Fischer (1933) 89 (errore *Cl. Braunii*); Bottomley (1948) 531.
Clathrus (*Clathrella*) *Baumii* P. Hennings (1903) 164; Sacc. Syll. Fung. VII : 213.
on sandy soil in light woods, Longa R. nr. Napalanka, *Baum 601*.

Clathrella pseudocancellata Ed. Fischer

Ed. Fischer (1900) 36; Sacc. Syll. Fung. VVI : 228; Hopkins (1938 a) 115; Bottomley (1948) 531.
as *Clathrus cancellatus* Tourn., Hopkins (1938 a) 114.
on ground, de Wagendrift, *Bottomley*, 11231; Pretoria, *Wickens*, 10058; Salisbury, *Eyles 2983*, 15527; Muckleneuk, Pretoria, *Vos*, 28777; Pretoria North, *Anderssen*, 33333.

Clathrus cibarius (Tul.) Ed. Fischer.

Sacc. Syll. Fung. VII : 20; Lloyd (1906 c) 295 6; Nel (1942) 71; Bottomley (1948) 528.
Ileodictyon cibarium Tul. Ed. Fischer (1890) 53, (1893) 19, (1900) 31.
on ground, Salisbury, *Eyles 4139* and *Green* (v. d. Byl 2346) : Beatrice, *Eyles 4098* : on ground under bushes, Table Mt., *MacOwan*.

Clathrus camerunensis P. Henn.

Lloyd (1918a) 754; Bottomley (1948) 530.
without locality, *v. d. Byl*.
Doubtful record : is possibly *C. gracilis*.

Clathrus gracilis (Berk.) Schlecht.

Lloyd (1909a) 62 ; Bottomley (1948) 529.

n woods and open ground, Kirstenbosch, *Levyns* (E. L. Stephens 167), *R. H. Compton* (E. L. Stephens 569) ; slopes of Table Mt., Newlands, *Bottomley & Lansdell* (E. L. Stephens 80) ; Groote Schuur, *J. Acocks* (E. L. Stephens 128).

Clathrus sp.

Bottomley (1948) 529.

on soil in exposed positions, Wonderboom, *Mogg*, 23642 ; on dam wall, Loskop, *Blaeser*, 31055.

Kalchbrennera corallocephala (Welw. & Curr.) Kalchbr.

Kalchbrenner (1880 a) 21 ; Ed. Fischer (1886) 61, (1933) 96 ; Lloyd (1909 a) 68, 81, 83 ; Marloth (1913) 22 ; Nel (1942) 71 ; Bottomley (1948) 532.

Lysurus corallocephalus Welwitsch & Currey (1868) 287.

Kalchbrennera Tuckii Berkeley (1876 c) 785, (1876 b) 248 ; Kalchbrenner (1876) 115, (1882 a) 106 ; Fischer (1886) 60, (1890) 18 ; Medley Wood (1898) 18 ; Sacc. Syll Fung. VII : 14.

Kalchbrennera Tuckii var. *microcephala* Pole Evans (1915 b) 159.

after heavy rain, on ground amongst Acacia thickets, Boschberg, *MacOwan & Tuck* (MacOwan 1225 ; S.A.M. 34318) 22050, Kew ; at foot of Kagaberg, near Bedford, *Trollip* (S.A.M. 34319) ; Kentani, *Pegler 1423*, Kew, *Pegler 1424*, 8848 ; Bedford, *Marloth*, 26590 ; Grahamstown, *Schonland*, 8952, 8953 ; in mealie lands, Amabele, *v. d. Byl*, 8954 ; near Engcobo, amongst decaying leaves after rain, *Woolby ;* Sydenham, *Medley Wood 665*, 10388, 13075, 31825, Kew ; Krantzkloof, *Medley Wood*, 812 ; Bot. Gard., Durban, *Medley Wood*, Kew ; Knapdaar, *Gideon Joubert*, 20842 ; Jacksons Tuin, *Mogg*, 28730 ; Durban, *v. d. Byl 359 ;* Bathurst, *Hahne*, 25367 ; Riversdale, *Muir* (v. d. Byl 2603) ; Brenton, Knysna, *Duthie 79*, 31357 ; Barberton, *Roland*, 32887 ; Umkomaas, *V. Bottomley*, 11861 ; Umtata, *Abernethy*, 34148 ; Bellville, *Lippett* (E. L. Stephens 553) ; Maciene, Mocambique, *E. L. Stephens* 15 ; George *McIntyre* (E. L. Stephens 279) ; Pinelands, Cape Town, *E. L. Stephens 129 ;* nr. Milkboschstrand, *Salkeld* (S.A.M. 56361).

Linderiella columnata (Bosc.) G. H. Cunn.

Bottomely (1948) 521.

Laternea angolensis Welwitsch & Currey (1868) 286.

Clathrus angolensis (Welw. & Curr.) Fischer (1886) 70, (1893) 33.

Colonnaria columnata (Bosc.) Fischer (1933) 85.

on humus covered soil, Catete, Pungo Andongo, *Welwitsch 120.*

Lysurus Gardneri Berk.

Lloyd (1918a) 792, (1917a) L.67 : 2 ; Bottomley (1948) 524.

Anthurus Woodii MacOwan, Kalchbrenner (1880 a) 23, (1882 a) 106 ; Fischer (1886) 80 ; Nel (1942) 71.

Lysurus Woodii (MacOwan) Lloyd (1909 a) 40, 81, (1924) 1319, 1327 ; van der Byl (1921 c) 191 ; Stevenson & Cash (1936) 160 ; Nel (1942) 71.

Lysurus borealis (Burt.) P. Henn., Lloyd (1924) 1319, 1327.

on ground amongst cow dung, around Inanda, *Medley Wood 134*, 10376, 22036, Kew and *Medley Wood 149 ;* Hopevale, *Morgan*, 27741, 28536, 28607 ; Putfontein nr. Benoni, *v. d. Merwe*, 23685 ; Johannesburg, *J. B. Wood*, 14245 : de Kuil, Standerton Distr., *Roos*, 20355 ; Brenton, Knysna, *Duthie* (E. L. Stephens 54) 31508, *Duthie 331, 338* (v. d. Byl 2334, 2369 ; Lloyd Myc. Coll. 24890, 24891, 27631), *Duthie & Mason* (Duthie 341) ; Grahamstown, *Archibald*, 33215 ; Ixopo, *Hackland.*

PHALLACEAE.

Dictyophora indusiata (Vent. ex Pers.) Desv.

Bottomley (1948) 518.

Dictyophora phalloidea Desv., Ed. Fischer (1886) 32–34, (1893) 30–31 ; Marloth (1913) 30.

Phallus indusiatus Vent. ex Pers., Medley Wood (1905) 5 ; Lloyd (1907) 332.

Phallus tunicatus Schlecht., Welwitsch & Currey (1868) 286.

in soil and decaying leaves, Inanda, *Haygarth* (Medley Wood 667) 11050 ; Kew ; nr. Pinetown, *Medley Wood 669*, 11050 ; Mbabane, *Hendricks*, 15047 ; Richmond, *Vivyan*, 20413 ; Hope Vale, *Morgan*, 34921 ; Natal, without locality, *Weintroub*, 34920 ; Maritzburg, *Fuller* (Rump 457) ; Qudeni Forest, *Talbot*, 34909 ; Hogsback, *E. L. Stephens 426* ; Newlands, *Lansdell*, 24380, *E. L. Stephens*, 24379 ; Angola, *Welwitsch*.

Itajahya galericulata Möller

Bottomley (1948) 513.

amongst grass, Pretoria, *Doidge*, 18072, *Bottomley*, 13069, 14238, 32771, 34919, *Talbot*, 34147.

Mutinus bambusinus (Zoll.) Ed. Fisch.

Lloyd (1922) 1124 ; Bottomley (1948) 513.

in decaying debris, Brenton, Knysna, *Duthie 291*, 31461 ; Belvidere, Knysna, *Duthie*, 31504 ; Brandfort, *Schonken* (Duthie 295) 31466.

Mutinus Curtisii (Berk.) Ed. Fischer.

Bottomley (1948) 511.

on the ground, Rondebosch, *Loseby*, 25461 ; Rondebosch, *J. Acocks* (E. L. Stephens 127).

Mutinus simplex Lloyd

Lloyd (1919) 879, fig. 1504, (1920) 960 ; Ed. Fischer (1933) 100 ; Stevenson & Cash (1936) 160 ; Bottomely (1948) 512.

in bush, Brenton, Knysna, *Duthie 215* (Lloyd Myc. Coll. 57856, type and 57850) 31403, 31510.

Phallus impudicus Linn. ex Pers.

Hopkins (1938a) 115 ; Nel (1942) 71 ; Bottomley (1948) 515.

on ground, Salisbury, *C. H. Green* (Eyles 4140 ; v. d. Byl 2345), *Hopkins* (Rh. 377 ; v. d. Byl 2500) ; Stellenbosch, *v. d. Byl 2333*.

Phallus rubicundus (Bosc.) Fr.

Lloyd (1909a) 83, (1922) 1124 ; Bottomley (1948) 516.

Phallus aurantiacus Mont., Fischer (1933) 103.

Ithyphallus aurantiacus (Mont.) Fischer, Sacc. Syll. Fung. VII : 9.

Phallus aurantiacus var. *gracilis* Fischer (1893) 37.

Phallus gracilis (Fischer) Lloyd, Stevenson & Cash (1936) 161.

Phallus rugulosus (Fischer) Lloyd (1920) 960 ; Stevenson & Cash (1936) 162.

Kupsura sphaerocephala Lloyd (1924) 303, 1319 ; Verwoerd (1928 a) 225 ; Fischer (1933) 119 ; Stevenson; & Cash (1936) 183.

as *Phallus campanulatus* Berk., Kalchbrenner (1882) 106 ; Bottomley (1948) 518.

Ithyphallus campanulatus (Berk.) Schlecht., Sacc. Syll. Fung. VII : 11.

on the ground, Boschberg, *Tuck & MacOwan* (MacOwan 1225, 1286) ; Inanda, *Medley Wood 699*, 11051, Kew & Berlin ; Sydenham, *Holwell*, Kew ; Pretoria, *Bottomley*,

12516, 12809, 14237, 20369, 23156, *Fouché*, 14643, *Kraan*, 17001, *Pole Evans*, 9041, 18079; Wonderboom, *King*, 10047; Meyerton, *Vorster*, 20373; Maritzburg, *T. R. Sim*: 11322; Johannesburg, *Burtt Davy*, 11011; Brenton, Knysna, *Duthie 216* (E. L. Stephens 56, 413, Lloyd Myc. Coll. 57851); Orange Free State, *Olivier* (E. L. Stephens 490) 34495; Knysna, *Duthie 208* (Lloyd Myc. Coll. 50084); Brandfort, *Schonken* (Duthie 299); without locality, *Duthie* (Lloyd Myc. Coll. 24893); Rondebosch, *Crawford* (E. L. Stephens 555, 556).

Sclerodermales.

SCLERODERMATACEAE.

Pisolithus tinctorius (Pers.) Coker & Couch

Bottomley (1948) 543.

Polysaccum crassipes DC., Lloyd (1916 d) L. 63: 4 (1917 a) L. 66: 3; Sacc. Syll. Fung. VII: 146; van der Byl (1918 a) 209, (1922 d) 287, (1926 c) 289; Verwoerd (1925 a) 16; Smith & Pope (1934) 95; Wakefield (1936) 52; Nel (1942) 69.

under **Eucalyptus** spp., on roots of tree and on ground, Deepwalls, *J. Phillips* (v. d. Byl 2325) 18040; Klapmuts, *André*, 24842; Stellenbosch, *v. d. Byl* (Stell. 157); Newlands, *Duthie 123*, 31358; Grahamstown, *N. J. G. Smith*, Kew; Elgin, *E. L. Stephens 419*; Somerset West, *Garside* (E. L. Stephens 508); Trappe's Valley *Dyer*, 25495; Buccleuch, *J. M. Sim*, 9792; Maritzburg, *Rump* (v. d. Byl 2623); Donnybrook, *Morgan*, 28950 nr. Solheim M. S., Eshowe, *Hφeg 170*; Pretoria-Johannesburg road, *Vos*, 20627, *Mogg*, 30781; Pretoria, *Weeber*, 959, 1886, *Pole Evans*, 1560, *Mogg*, 23638, 30781; Meintjies Kop, *Gower*, 17093; Fountains Valley, *Sellschop*, 8958; near Pretoria *v. d. Byl 1965*; Potchefstroom, *Rudloff* (v. d. Byl 2092); Tzaneen, *v. d. Byl 1474*; Lobatsi, *Wallace*, 17094; Transvaal, without locality, *Kretzschmar*, 11815.

Scleroderma aurantium Pers.

Lloyd (1915a) L.56: 2; Hopkins (1938a) 115; Bottomley (1948) 539.

Scleroderma vulgare Hornem ex Fr., Berkeley (1876 a) 175; Cooke (1879 b) 70; Massee (1889 b) 49; Medley Wood (1898) 18; Lloyd (1920) 1073; Verwoerd (1925 a) 18, (1931 a) 300; van der Byl (1925 b) 196; J. Phillips (1931) 161; Nel (1942) 70.

on ground, Cape, *Eaton*; Natal, *Medley Wood 374*, 369, 10705, Kew; Kloof, *Bonfa*, 33571; Nottingham Road, *v. d. Byl 557*, 31805; Cape, *MacOwan 1454*, Kew; Bloemfontein, *Verwoerd*; Salisbury, *Eyles 4091* (v. d. Byl 2351).

Scleroderma Bovista Fr.

Cooke (1879 b) 70; Massee (1889 b) 51; Verwoerd (1925 a) 40.
Bottomley (1948). 540.

on ground, Inanda, *Medley Wood 369*, 10703, 11210; Salisbury (Rh. 4277).
Medley Wood's specimen is immature.

Scleroderma capensis Lloyd

Lloyd (1924) 1305; Stevenson & Cash (1936) 192; Bottomley (1948) 540.

on ground, Stellenbosch, *Duthie 327* (Lloyd Myc. Coll. 24894) 31489, Type.

Scleroderma cepa Pers.

Lloyd (1908 b) L. 23, (1911 b) L. 38: 3, (1914) L. 53: 3, 13, (1916 d) L. 63: 4, (1917 a) L. 66: 3, 12, L. 67: 2, 5, (1920) 952, 960, 1010, 1073, (1923) 1186, 1189, 1263; van der Byl (1922 d) 287, (1925 b) 195; Verwoerd (1925 a) 16; J. Phillips (1931) 161; Nel (1942) 70; Bottomley (1948) 536.

on ground, under *Populus* spp., Fountains Valley, *Lansdell & Bottomley*, 28587 ; *Parkes*, 21095, *Reinecke*, 21215 ; Wonderboom, *Doidge & Bottomley*, 28725, *King*, 10056, *Doidge*, 23168 ; Mazelspoort, *Talbot*, 35402 ; under *Pinus* sp., Meintjies Kop, *Bottomley*, 14515, 20389, *Bosman*, 25436 ; under *Salix* spp. Pyramids, *Hean*, 30999 ; Garstfontein, *Pienaar*, 1349, 1338 ; under *Eucalyptus* spp., Pretoria, *Reinecke*, 23141 ; under Quercus spp., Belvidere, Knysna, *Duthie*, 31388 ; attached to the roots of *Quercus* seedling, Johannesburg, 28585 ; under hedge, Riviera, *Schaefer*, 35401 ; situation not known, Riviera, *Kresfelder*, 9774, 9794 ; Rietfontein, *Venter*, 14493 ; Pretoria, *Doidge*, 11810 ; Johannesburg, *Bottomley*, 8771 ; East Rand, *Marquardt*, 14485 ; Maritzburg, *Pole Evans*, 1342, 1343, 1347, 1355, 1358 ; Empangeni North, *v. d. Byl*, 31886 ; Mamathes, *Hean*, 33495 ; Stellenbosch, *Duthie 274* (v. d. Byl 1967) 31447, *de Vos*, 31517 ; Stellenbosch Flats, *Duthie*, 31469 ; Ida's Valley, *Duthie*, 35407 ; Knysna, *Duthie*, 31401, 35403, *Duthie 111*, 31354, Toise River, *Pienaar*, 2276 ; Kirstenbosch, *Compton*, 24835, *Putterill*, 14835, *E. L. Stephens 431, 468*, 35514, 35440, *Middlemost*, (E. L. Stephens 467) 35515, *E. L. Stephens 477*, 35517 ; Rondebosch, *E. L. Stephens 154*, 35512 ; Stikland, *J. Acocks* (E. L. Stephens 112) 35511 ; without locality, *E. L. Stephens 470*, 35516 ; University grounds, Rosebank, *E. L. Stephens 78, 79, 524, 559 ;* Brackenfel Hill, *J. Acocks* (*E. L. Stephens 118*) ; Aliwal North road, *Dyer*, 35518 ; Zululand, *v. d. Byl 556 ;* Natal, *v. d. Byl 288 ;* Nottingham Road, *v. d. Byl 337*.

Scleroderma flavidum Ell. & Everh.

Lloyd (1913 c) L. 47 : 3. (1920) 960, (1922) 1160 ; van der Byl (1922 d) 287 ; Verwoerd (1925a) 17, (1931a) 300 ; Nel (1942) 70 ; Bottomley (1948) 538.
Scleroderma rhodesica Verwoerd (1926 a) 292, 294 ; Hopkins (1938 a) 115.
Sclerogaster rhodesica Nel (1942) 67, erronee *S. rhoderica*.
on ground, often under trees, Potchefstroom, *M. Gunn*, 30513, *Sellschop*, 28516, *Radloff* (v. d. Byl 2093) : Meintjies Kop, *Bottomley*, 20414, 20583 ; Rietvlei, Pretoria, *Bottomley*, 35399 ; Magaliesberg Mts., *Dobie*, 23380 ; Riviera, *Kresfelder*, 9773 ; Mooibank, Potchefstroom, *Lawrence*, 24885 ; Fountains Valley, *Bottomley*, 20466 ; Pietersburg, *Pole Evans*, 25425 ; Parys, *Doidge*, 28601 ; Stellenbosch, *de Vos, Verwoerd* (Stell. 9 ; v. d. Byl 1966) ; Kirstenbosch, *Lansdell*, 24824, *Bolus* (v. d. Byl 1668) ; without locality, *E. L. Stephens 223*, 34530 ; on banks of Umsindusi R., Maritzburg, *Pole Evans*, 25424 ; Bloemfontein, *Verwoerd ;* amongst grass, Salisbury, *Eyles 4133* (v. d. Byl 2342 ; Rh. 4030).

Scleroderma Geaster Fr.

Lloyd (1917a) L.66 : 3 ; Bottomley (1948) 536.
on ground, without locality, *Duthie*.

Scleroderma laeve Lloyd

Lloyd (1916d) L.63 : 4, 11 ; Verwoerd (1925a) 41 ; Bottomley (1948) 541.
on ground, Stellenbosch, *Duthie 118*.
fide Lloyd, a smooth form of *S. verrucosum* (Bull. ex Pers.) Pers.

Scleroderma lejospermum (Mont.) de Toni

Vervowerd (1925a) 40 ; Bottomley (1948) 541.
Mycenastrum lejospermum Montagne (1847) 175.
Sterrebeckia lejosperma (Mont.) Fries (1848) 33.
Witpoortberg, *Drège 9466*.

Scleroderma nitidum Berk.

Hopkins (1938a) 115.
on ground, Salisbury, *Eyles 7222*, Kew.

Scleroderma pyramidatum Kalchbr.

Kalchbrenner (1882 a) 109 ; Sacc. Syll. Fung. VII : 136 ; Medley Wood (1898) 18; Verwoerd (1925 a) 40 ; Bottomley (1948) 541.
on ground, Natal, *Medley Wood 375*, 10704.
Fide Bottomley, l.c., this is not a Scleroderma, but a gill fungus, possibly *Montagnites* sp.

Scleroderma stellenbossiensis Verw.

Verwoerd (1926a) 292 ; Nel (1942) 70 ; Bottomley (1948) 542.
on damp, clayey ground, Stellenbosch, *Verwoerd* (Stell. 274, 300 ; v. d. Byl 2223) Type.

Scleroderma tenerum Berk. & Curt.

Lloyd (1911) L. 38 : 3, (1914) L. 53 : 3, (1916 d) L. 63 : 4, (1917 a) L. 67 : 5, (1920) 952, 1073 ; van der Byl (1922 d) 287, (1925 b) 196 ; Verwoerd (1925 a) 18 ; J. Phillips (1931) 161 ; Nel (1942) 70 ; Bottomley (1948) 542.
in humus, along edge of spring, Belvidere, Knysna, *Duthie 141 ;* inside decayed tree, Stellenbosch, *Duthie 119 ;* Zululand, *v. d. Byl 619.*

Scleroderma verrucosum (Bull. ex Pers.) Pers.

Kalchbrenner (1882 a) 109 ; Sacc. Syll. Fung. VII : 136 ; Massee (1889 b) 50 ; Lloyd (1913 c) L. 47 : 3, (1916 d) L. 63 : 4, (1920) 1010 ; Verwoerd (1925 a) 18 ; van der Byl (1925 b) 196 ; J. Phillips (1931) 161 ; Hopkins (1938 a) 115 ; Bottomley (1948) 537.
on ground, near Somerset East, *MacOwan 1424 ;* Cape Town, *MacOwan*, Kew ; under oak, Belvidere, Knysna, *Duthie 212, 278*, 31369, 31451 ; Stellenbosch, *Duthie 13*, 31300, *v. d. Byl 1185 ;* Salisbury, *Eyles 4141 ;* Hogsback, *N. J. G. Smith*, Kew ; Mamathes, *Hean*, 33496 ; under poplars, Garstfontein, *Doidge*, 30702 ; Fountains, *Doidge*, 35406, *Schaefer*, 35404 ; Maritzburg, *Pole Evans*, 1345, Kew, *J. M. Sim*, 8816; Kirstenbosch, *E. L. Stephens* 107

ARACHNIACEAE.

Arachnion alborosella Verw.

Verwoerd (1926 a) 291, 293, (1931 a) 300 ; Bottomley (1948) 546.
on veld, Brandfort, *Verwoerd* (Stell. 234 ; v. d. Byl 2221).

Arachnion album Schw.

Lloyd (1906 a) 253, (1913 c) L. 47 : 3, (1914) L. 53 : 13, 15, (1915 a) L. 60 : 3, (1917 c) 644, (1917 a) L. 66 : 3, (1920) 960, 961 ; van der Byl (1922 d) 287, (1925 b) 193 ; J. Phillips (1931) 161 ; Nel (1942) 107 ; Bottomley (1948) 546.
Scoleiocarpus tener Berkeley (1843 b) 520 ; Sacc. Syll. Fung. VII : 151 ; Lloyd (1922) 1134 ; Fischer (1933) 56.
on ground, Uitenhage, *Zeyher 106, ;* Stellenbosch Flats, *Duthie 21*, 31303 ; Stellenbosch, *Verwoerd* (Stell. 172 ; v. d. Byl 1968) ; Belvidere, Knysna, *Duthie 68, 70, 217, 240*, 31330, 31405, 31423 ; Forest Hall, Knysna, *Duthie 219, 220, 222*, 31407, 31408, 31410 ; Victoria Road, Stellenbosch, *Duthie* 31506, 31507 ; Mowbray, *Levyns* (v. d. Byl 2109) ; Rietvlei, Pretoria, *Bottomley*, 35432 ; locality unknown, *E. L. Stephens 320*, 398 ; Katberg, *E. L. Stephens 429.*

Arachnion firmoderma Verw.

Verwoerd (1926 a) 290, 293, (1931 a) 300 ; Bottomley (1948) 547.
in old cattle runs, Brandfort, *Verwoerd* (Stell. 233 ; v. d. Byl 2220) Type.

Arachnion giganteum Lloyd

Lloyd (1917 a) L. 65 : 3, (1917 c) 645, (1920) 1073 ; Verwoerd (1925 a) 19 ; Stevenson & Cash (1936) 164 ; Fischer (1933) 56 ; Bottonley (1948) 546.
on ground, Clanwilliam, *Duthie 166 a* (Lloyd Myc. Coll. 22753) Type ; Stellenbosch, *Duthie 255* (Lloyd Myc. Coll. 50745) ; Belvidere, Knysna, *Duthie 254.*

Arachnion scleroderma Lloyd

Lloyd (1915 a) L. 60 : 3, (1915 b) 538, (1917 c) 644, (1920) 960, 992, (1922) 1134 : van der Byl (1922 d) 287 ; Verwoerd (1925 a) 20 ; Sacc. Syll. Fung. XXIII . 597 ; Stevenson & Cash (1936) 164 ; Nel (1942) 107 ; Bottomley (1948) 547;
on ground, Stellenbosch Flats, *Duthie 41, 70, 232* (v. d. Byl 1969 ; Lloyd Myc. Coll. 22677, 22678, 24892) 31313, 31501 ; Stellenbosch, *Verwoerd* (Stell. 183) ; appearing in some abundance on lower and damper parts of Flats, *Duthie.*

Lycoperdales.

LYCOPERDACEAE.

LYCOPERDEAE.

Bovista citrina (Berk. & Br.) Bottomley

Bottomley (1948) 580.
on ground, Salisbury, *Eyles 7219, 7221*, Kew.

Bovista oblongispora (Lloyd) Bottomley

Bottomley (1948) 580.

Bovistella oblongispora Lloyd (1916 d) L. 63 : 4, (1917 c) 632 ; Verwoerd (1925 a) 29 ; Stevenson & Cash (1936) 168.
on ground, Belvidere, Knysna, *Duthie 99* (Lloyd Myc. Coll. 30756) Type,

Bovista umbrina Bottomley.

Bottomley (1948) 580.
in forest, Woodbush, *Roberts*, 5659, Type.

Broomeia congregata Berk.

Berkeley (1844) 193 ; von Thuemen (1875) 424 ; MacOwan (1877) 123, (1883) 373 , Cooke (1879) 70 ; Kalchbrenner (1882 a) 108 ; Murray (1883) 311 ; Sacc. Syll. Fung. VII : 94 ; Lloyd (1904 a) 193, (1907) 318, (1920) 917, (1924) 1276 ; Pole Evans & Bottomley (1919) 189 ; Verwoerd (1925 a) 34 ; Fischer (1933) 68 ; Hopkins (1938 a) 115 ; Bottomley (1948) 583.
usually at the foot of *Acacia Karroo*, Albany Distr., *Backhouse* (Type) ; Damaraland, *Ëën*, Kew and Brit. Mus. ; nr. Klein Vis Rivier, *MacOwan*, Kew : Boschberg, *MacOwan* (S.A.M. 35073) ; Inanda, *Medley Wood 426*, Kew ; Empangeni, *Curson*, 17275 ; Port Elizabeth (ex Herb. Hooker) Kew ; South-west Africa, *Dinter ;* Pretoria, *Bischoff*, 8758, *Janse*, 13023 ; Fountains Valley, *Pole Evans*, 8760 ; Meintjies Kop, *Goldblatt*, 20441 ; Pretoria, *Louwrens*, 28256, *Bottomley*, 28655 ; Rietvlei, Pretoria Distr., *Acocks*, 30754; Rust der Winter, *Pole Evans*, 28792 ; Kroonstad, *Pont*, 25341 : Glen, *Sellschop*, 28272 ; Potchefstroom, *Goossens*, 27807 ; Kimberley, *Mowbray*, 14863 ; Maritzburg,

T. R. Sim, 11855 ; Mqanduli, *Pegler 643*, 11801 ; Umtata, *Pegler* (E. L. Stephens 454) ; without locality, *E. L. Stephens 174 ;* Mangwendi, *Fleming* (Eyles 2763) 14245 ; Rhodesia *Eyles* (v. d. Byl 1876).

Broomeia ellipsospora v. Höhn.

von Höhnel (1905) 99 ; Sacc. Syll. Fung. XXI : 481 ; Lloyd (1909 b) 436, (1920) 1918, 1048 ; Pole Evans & Bottomley (1919) 189 ; Verwoerd (1925 a) 34 ; Nel (1942) 68 ; Bottomley (1948) 584.

Diplocystis Junodii Pole Evans & Bottomley (1919) 189 ; Fischer (1933) 68 ; N. J. G. Smith (1935) 258.

" in sabulosis in Africa australi ", *Holub ;* South-west Africa, *v. d. Byl 1925*, *2502*, and *Marloth*, 26617 ; Potgietersrust, *de Villiers*, 31287 ; on ground, Rikatli, *Junod*, 12169, 23194, Kew ; near Marienthall, *Smithers* (S.A.M. 52051) ; Silikats Nek, *Schweickerdt*, 26700 : Lourenço Marques, *Junod*, 11012, *Borle*, 14109 ; Empangeni, *Curson*, 17275 ; Brandberg Mts., S.W.A., *N. J. G. Smith*, 27510 ; between Dealesville and Herzogville, *V. C. Green*, 34355 ; Middelburg, Transvaal, *Dyer*, 30503 ; Upington, *Wilman* (E. L. Stephens 567) ; near Kimberley, *Powers* (E. L. Stephens 403) ;

Calvatia caelata (Bull.) Morg.

Bottomley (1948) 572.

Calvatia Fontanesii (Dur. & Mont.) Lloyd (1920) 1010 ; Verwoerd (1925 a) 42.

on ground, Groenkloof, *E. P. Phillips*, 12451.

Calvatia candida (Rostk.) Hollós.

Bottomley (1948) 575.

Calvatia olivacea (Cooke & Mass.) Lloyd (1911 b) L. 38 : 3 ; Stevenson & Cash (1936) 172.

Lycoperdon retis Lloyd (1922) 1160, 1176 ; Stevenson & Cash (1936) 188.

on ground, under Eucalyptus trees, Maritzburg, *Pole Evans* (Lloyd Myc. Coll. 34259) 1342, Kew ; without locality, *Duthie* (Lloyd Myc. Coll. 51765) ; in bush, Bulwer, *Rump 467*, 34523 ; Maritzburg, *J. M. Sim*, 10052, *Rump 710 ;* Rietfontein, Pretoria, *Venter*, 14638.

Calvatia gigantea (Batsch ex Pers.) Lloyd

Bottomley (1948) 573.

Lycoperdon Bovista Linn. Thunberg (1800) 182, (1823) 756.

in hills outside Cape Town, *Thunberg.*

Calvatia incerta Bottomley

Bottomley (1948) 576.

on grassy slopes after continuous rain, Benoni, *Bailey*, 27339, type.

Calvatia lepidophora (Ellis) Lloyd

Bottomley (1948) 574.

on sandy soil, Garstfontein, *Pienaar* 1468 ; Meintjes Kop, *Pole Evans*, 13795 ; Rietfontein, Pretoria, *Venter*, 14638 ; Matatiele, *Gideon Joubert*, 28534.

Calvatia lilacina (Mont. et Berk.) P. Henn.

Lloyd (1914) L. 53 : 13, (1916 d) L. 63 : 4, (1917 a) L. 65 : 3, L. 66 : 12, 13, (1920) 952, (1922) 460, (1923) 1186 ; Verwoerd (1925 a) 33 ; Cunningham (1944) 157 ; Bottomley (1948) 572.

Lycoperdon cyathiforme Bosc., Kalchbrenner (1882 a) 108 : Massee (1887) 706 : Verwoerd (1925 a) 41.

Lycoperdon lilacinum (Mont. & Berk.) Mass., Cheesman (1909) 409.

Bovista lilacina Mont. & Berk., Kalchbrenner & Cooke (1881) 26 : Kalchbrenner (1882a) 108.

on ground, near Boschberg, *MacOwan 1004, 1009* : Natal, *Medley Wood 408*, 11147, Kew : Maclear. *Pienaar*, 2134 : Matatiele, *Gideon Joubert*, 26852 : Stellenbosch, *Duthie 40*, 31312 : Stellenbosch Flats, *Duthie 42, 121, 188* (v. d. Byl 816) : Woodbourne, Knysna, *Duthie 46, 116* : Kirstenbosch, *L. Bolus* (v. d. Byl 1669) and *E. L. Stephens 404* : Stikland, *J. Acocks* : Groote Schuur, *E. L. Stephens 131* : Llandudno, *E. L. Stephens*, 34573 : Stella Bush, *Moonsamy*, 31769, *v. d. Byl 543*, 31901 : Durban, *v. d. Byl 390, 391, 543* : Donnybrook, *Doidge*, 34538 : Maputa Exped., *Breijer*, 8361 : Bloemfontein, *Potts*, 13016 : Pretoria, *Wickens*, 20372, *Pienaar*, 1939, *Mogg*, 23640 : Maritzburg, *J. M. Sim*, 8796 : Riviera, Pretoria, *Kresfelder*, 9795 : Roseville, Pretoria : edge of Rain Forest, Victoria Falls, *Cheesman*.

Calvatia macrogemmae Lloyd.

Lloyd (1922) 1122, (1923) 1169 : Verwoerd (1925 a) 33 : Stevenson & Cash (1936) 172 ; Nel (1942) 68 ; Bottomley (1948) 577.

on ground amongst grass, Natal, *Thode* (v. d. Byl 505) ; without locality, *v. d. Byl 80* (Lloyd Myc. Coll. 22585) Type.

Calvatia pachyderma (Peck) Morgan

Bottomley (1948) 577.

in sandy soil, Cape Province, *E. L. Stephens*, 34143.

Calvatia saccata (Vahl ex Fr.) Morgan

Bottomley (1948) 574.

Lycoperdon saccatum Vahl, Kalchbrenner (1882 a) 108 : Verwoerd (1925 a) 41 ; Massee (1887) 708, (1889 b) 69 ; Sacc. Syll. Fung. VII : 128.

in wooded country, near Somerset East, *MacOwan*.

Disciseda anomala (Cooke & Mass.) G. H. Cunn.

Bottomley (1948) 569.

Catastoma anomalum (Cooke & Mass.) Lloyd (1916 c) 610 : van der Byl (1921 g) 346 : Verwoerd (1926 b) 27 ; Stevenson & Cash (1936) 173 ; Nel (1942) 68.

on ground, without locality, *Duthie* : Phoenix, *v. d. Byl 525* : Durban, *v. d. Byl 237* : Mamathes, *Hean*, 3:145.

Disciseda candida (Schw.) Lloyd

Bottomley (1948) 570.

Catastoma Duthiei Lloyd (1919) 891 : Verwoerd (1925 a) 28 : van der Byl (1925 b) 196 ; Stevenson & Cash (1936) 174.

Catastoma circumscissum (Berk. & Curt.) Morgan in Herb. Kew.

on ground, Forest Hall, Knysna, *Duthie 224* (Stell. 225 : Lloyd Myc. Coll. 52391) 31411 : Queenstown, *Pope* (det. N. J. G. Smith) Kew : under *Acacia Caffra*, Commando Nek, *Pole Evans*, 8381 : Phoenix, *Hardenberg*, 31862 : without locality, *Duthie*, 31514

Disciseda castanea (Lév.) Bottomley

Bottomley (1948) 568.

Bovista castanea Léveillé (1846) 162 ; Montagne (1847) 176 ; Massee (1888) 135; Sacc. Syll. Fung. VII : 103 ; Verwoerd (1925 a) 42.

Catastoma castaneum (Lév.) Lloyd (1906 c) 291.

between Hex River Mts. and the Bokkeveld, *Drége 9455 a* [Herb. Mus. Paris and Herb Delessert, Geneva)]. ; under *Eucalyptus globulus*, Maritzburg, *T. R. Sim*, 8796.

Disciseda cervina (Berk.) Hollós

Hollós (1903 b) (22) ; Bottomley (1948)570.

Bovista cervina Berkeley (1842) 447 ; Sacc. Syll. Fung. VII : 100 ; Verwoerd (1925 a) 42.

Catastoma magnum Lloyd (1917 c) 631, (1920) 1010, (1922) 1124 ; Verwoerd (1925 a) 27 ; Stevenson & Cash (1936) 175 ; van der Byl (1922 d) 286.

on ground near Cape of Good Hope ; Stellenbosch Flats, *Duthie 282* (Lloyd Myc. Coll. 52392) ; under *Acacia caffra*, Commando Nek, *Pole Evans* (Lloyd Myc. Coll. 52393) 8381 ; Schweizer Reinecke, *D. v. H.* 34531 ; Marienthall, *Marloth*, 26613.

Disciseda hypogaea (Cke. & Mass.) G. H. Cunn.

Bottomley (1948) 568.

in sandy soil, eastern slopes of Bokkeveld, *E. L. Stephens* 562.

Disciseda juglandiformis (Berk.) Hollós

Hollós (1903) 22 ; Bottomley (1948) 567.

Bovista juglandiformis Berk. in Massee (1888) 130.

Catastoma juglandiformis (Berk.) Lloyd (1916 d) L. 63 : 4 ; Verwoerd, (1925 a) 42 ; Stevenson & Cash (1936) 175.

on the ground, South Africa (Type in Herb. Berkeley, no. 4584) Kew ; Brenton, Knysna, *Duthie 153* (Lloyd Myc. Coll. 52388).

Disciseda pedicellata (Morgan) Hollós

Cunningham (1944) 137 ; Bottomley (1948) 567.

Catastoma pedicellatum Morgan, Lloyd (1920) 960, 961 ; Verwoerd (1925 a) 27 ; van der Byl (1925 b) 196 ; Nel (1942) 68.

amongst grass, Knysna, *Duthie 207* (v. d. Byl 1426, ex Herb. C. G. Lloyd) ; Maputa Exped., *Breijer*, 8355.

Disciseda verrucosa G. H. Cunn.

Bottomley (1948) 568.

on ground, Drostdy grounds, Grahamstown, *N. J. G. Smith 221*, 27511.

Disciseda Zeyheri (Berk.) Hollós

Hollós (1903) 22 ; Bottomley (1948) 569.

Bovista Zeyheri Berk., Massee (1888) 130.

Catastoma Zeyheri (Berk.) Lloyd (1917 a) L. 65 : 3, 8, (1922) 1162 ; Verwoerd (1925 a) 27 ; van der Byl (1925 b) 196 ; Nel (1942) 68.

on the ground, South Africa (Type in Herb. Berkeley, no. 4588) Kew ; Mossel Bay, *v. d. Byl 731 ;* without locality, (?Knysna) *Duthie.*

Lanopila capensis Lloyd

Lloyd (1922) 1160, (1923) 1177 ; Verwoerd (1925 a) 25 ; Fischer (1933) 64 : Stevenson & Cash (1936) 183 ; Bottomley (1948) 579.

on ground, Papegaaisberg, *Duthie 304* (Lloyd Myc. Coll. 7567) 31472, Type.

Lanopila Radloffiana Verw.

Verwoerd (1925 a) 25 ; Bottomley (1948) 578.

on ground, Winburg, *Radloff* (v. d. Byl 1439) Type.

Lanopila Wahlbergii Fr.

Fries (1848) 31 ; Sacc. Syll. Fung. VII : 95 ; Lloyd (1917 a) L. 66 : 2, (1920) 960, (1923) 1177 ; Verwoerd (1925 a) 25 ; van der Byl (1921 g) 347 ; Fischer (1933) 64 ; Nel (1942) 107 ; Bottomley (1948) 578.

on ground, Durban, *Wahlberg*, Type, *v. d. Byl 314*, *Verwoerd* (Stell. 120), *Bottomley*, 12254 ; Knysna, *Duthie 241* : nr. Mafeking, *Pole Evans*, 27500 ; Vaal River, nr. Kimberley, *H. H. W. Pearson*.

Lycoperdon asperrimum Welw. & Curr.

Welwitsch & Currey (1868) 289 ; Sacc. Syll. Fung. VII : 125 ; Bottomley (1948) 562.

on sand dunes, on banks of Lagao de Giraul, Mossamedes, *Welwitsch 142* ; near Maiomba, Mossamedes, *Welwitsch 144*.

Lycoperdon asperum (Lév.) de Toni

Cunningham (1944) 154 ; Bottomley (1948) 561.

Bovistella aspera (Lév.) Lloyd (1915 a) L. 56 : 2, 5, L. 60 : 3, (1922) 1160 ; Verwoerd (1925 a) 29 ; van der Byl (1925 b) 196.

on ground, Belvidere, Knysna, *Duthie 310. 312*, 31477, 31479, *Duthie 67* (Stell. 170) ; Johannesburg, *Bottomley*, 8772 ; Transvaal, *v. d. Byl*.

Lycoperdon bicolor Welw. & Curr.

Welwitsch & Currey (1868) 290 ; Lorrain Smith (1901) 465 ; Bottomley (1948) 562.

in very damp woody pastures, between Lopollo and Empalanea, Huila, *Welwitsch 146*.

Lycoperdon caespitosum Welw. & Curr.

Welwitsch & Currey (1868) 289 ; Massee (1887) 725 ; Sacc. Syll. Fung. VII : 120 ; Kalchbrenner (1882 a) 109 ; Lorrain Smith (1901) 465 ; Verwoerd (1925 a) 41 ; Bottomley (1948) 556.

in open grassy places, Somerset East, *MacOwan 1005*, 22058, Kew; gregarious in upland. poor meadows, Morro de Lopollo, *Welwitsch 145*.

Lycoperdon caffrorum Kalchbr. & Cooke

Kalchbrenner (1882 a) 109 : Massee (1887) 707 ; Sacc. Syll. Fung. VII : 129, 477 ; Verwoerd (1925 a) 41 ; Bottomley (1948) 556.

on ground, Somerset East, *MacOwan 1424*, 22059, Type.

Lycoperdon capensis Cooke & Massee

Massee (1887) 714 ; not Fries : Fischer (1889) 7 : Hennings (1892) 360 : Sacc. Syll. Fung. VII : 481 ; Verwoerd (1925 a) 42 ; Bottomley (1948) 563 as *L. capense*.

on ground, Ombale, Ondongo, South-West Africa, *Schinz*.

" A later homonym of *L. capense* Fr., should be renamed if a good species ", E. M. Wakefield.

Lycoperdon capense Fr.

Fries (1848) 42 ; Bottomley (1948) 563.
on ground, Uitenhage *Zeyher No. 106.*

Lycoperdon Curreyi Mass.

Massee (1887) 706 ; Bottomley (1948) 563.
Lycoperdon Welwitschii de Toni, not *L. Welwitschii* Mass., Sacc. Syll. Fung. VII: 127 ; Verwoerd (1925 a) 32.
Lycoperdon radicatum Welwitsch & Currey (1868) 289 ; Kalchbrenner (1882 a) 108, (not Dur. & Mont.).
Lycoperdon atroviolaceum Kalchbr. (nom. nud.) in Herb. S.A.M.
on ground, Boschberg, *MacOwan 1004*, Type (S.A.M. 35050) 22062, Kew ; *MacOwan 1009*, 22061.

Lycoperdon djurense P. Henn.

Hennings (1901) (100) ; Lloyd (1917 a) L. 66 : 16, (1920) 1010, (1922) 1124, 1160 ; van der Byl (1921 g) 347 ; Verwoerd (1925 a) 32 ; Hopkins (1938 a) 115 ; Nel (1942) 69 ; Bottomley (1948) 552.
as *Lycoperdon endotephrum* Pat. in Lloyd (1912 b) L. 39 : 3.
on ground, often among short grass, Pretoria, *Bottomley*, 11865, 34589 ; Meintjies Kop, *Bottomley*, 14648 ; Johannesburg, *Barraclough*, 27385 ; Rietfontein, Pretoria, *Venter*, 14487 ; Schroeders, *v. d. Byl 542*, 31761 ; Salisbury, *Eyles 2524*, 14855 ; Wonderboom, *King*, 10050 ; Rietvlei, Pretoria, *J. Acocks*, 34574, *Bottomley*, 34577 ; Garstfontein, *Bottomley*, 35426 ; Stellenbosch *Eyles 6667* (Rh. 3906).

Lycoperdon Duthiei Bottomley

Bottomley (1948) 555.
on ground, Kirstenbosch, *Duthie 44 pr. p.*, 35338, Type, Kew.

Lycoperdon flavum Mass.

Massee (1887) 721 ; Sacc. Syll. Fung. VII : 486 ; Bottomley (1948) 557.
? as *Lycoperdon gemmatum* Batsch., Kalchbrenner (1882 a) 109.
on ground, Cape, *MacOwan 1005 b*, Kew ; Pretoria, *Scott*, 34580, *Bottomley*, 35528 ; collected around Pretoria on many occasions.

Lycoperdon Gardneri Berk.

Massee (1887) 716 ; Bottomley (1948) 564.
on ground in shady woods, South Africa.

ycoperdon glabellum Peck

Kalchbrenner (1882 a) 109 ; Massee (1887) 707 ; Sacc. Syll. Fung. VII : 124, 477 ; Bottomley (1948) 564.
on ground, Somerset East, *MacOwan 1337 ;* Baziya, *Baur.*

Lycoperdon Gunnii Berk.

Bottomley (1948) 561.
on ground, Wellington, *Bottomley*, 1547 ; Stellenbosch Flats, *Duthie 302*, 31470 ; Bloemfontein, *Potts*, 13003 ; Salisbury, *Eyles 2523*, 14861.

Lycoperdon hyemale (Bull. ex Pers.) Vitt.

Cunningham (1944) 137 ; Bottomley (1948) 551.

Lycoperdon natalense Cooke & Mass., Massee (1887) 709 ; Sacc. Syll. Fung. VII : 478 ; Verwoerd (1925 a) 41.

Lycoperdon pratense Pers., Lloyd (1905) L. 7, (1911 b) L. 31 : 2, (1916 d) L. 63 : 4 ; Marloth (1913) 22 ; van der Byl (1922 d) 286 ; Verwoerd (1925 a) 31, (1931 a) 300 ; Hopkins (1938 a) 115 ; Nel (1942) 69.

Lycoperdon Curtisii Berk., Kalchbrenner (1882 a) 109 ; Massee (1887) 712 ; Sacc. Syll. Fung. VII : 114, 480 ; Verwoerd (1925 a) 41.

Lycoperdon Eylesii Verwoerd (1926 a) 262, 294 ; Hopkins (1938 a) 115 ; Nel (1942) 69.

Lycoperdon multiseptum Lloyd (1914) L. 53 : 3, 9 (1920) 1073 ; Verwoerd (1925 a) 42 ; Stevenson & Cash (1936) 187.

as *Lycoperdon gemmatum* Batsch, von Thuemen (1876 b) 363.

on ground, Inanda, *Medley Wood 185, 358, 361*, Kew ; in fields and grassy spaces, Boschberg, *MacOwan 1003* (Thuem. Myc. Univ. 1611 ; S.A.M. 35051) 22060, Kew ; slopes of Katberg, *E. L. Stephens 428 ;* Knysna, *Duthie 38, 256* (Lloyd Myc. Coll. 53127, 51764) and *Duthie* (v. d. Byl 2034) ; Brenton, Knysna, *Duthie*, 31347 ; Belvidere, Knysna, *Duthie*, 31348 ; Rondebosch, *E. L. Stephens 450*, 34534 ; Kirstenbosch, *Garabedian* (S.A.M. 45896) ; Cape, without locality, *Adamson* (E. L. Stephens 447) 34533 ; Pretoria, *Bottomley*, 11864, 11866, 33462, 33772, 35530, *Lounsbury*, 11867, *Doidge*, 958, 31583 ; Groenkloof, *Pole Evans*, 8780, *Sellschop*, 9775, *Landsdell*, 18144; Kilnerton, *Pole Evans*, 2242 ; Garstfontein, *Pienaar*, 1876, 18089 ; Fairy Glen, Pretoria, *Bottomley*, 23169 ; Johannesburg, *Doidge*, 27804 ; Brandfort, *Verwoerd*, 34534 ; Orange Free State without locality, *Olivier*, 34557 ; van Reenen, *Franks*, 5666 ; Maritzburg, *Rump 389*, 30789 ; Mbabane, *Stewart*, 1557 ; Salisbury, *Eyles 4089* (v. d. Byl 2223) Beatrice, *Eyles 4090* (Rh. 3823).

Lycoperdon laetum Berk.

Berkeley (1843) 419 ; Massee (1887) 718 ; Sacc. Syll. Fung. VII: 483 ; Bottomley (1948) 565.

on ground, Uitenhage, *Zeyher 103*.

Lycoperdon natalense Fr.

Fries (1848) 30, ? nom. nud. ; Bottomley (1948) 565.

Natal, *Wahlberg*.

Lycoperdon perlatum Pers.

Bottomley (1948) 554.

Lycoperdon gemmatum Batsch, Berkeley (1843 b) 519 ; Massee (1889 b) 70 ; Sacc. Syll. Fung. VII : 108 ; Lloyd (1924) 1294 ; Verwoerd (1925 a) 32.

on ground or decayed vegetable matter, Uitenhage, *Zeyher 102 ;* Kirstenbosch, *Garabedian* (S.A.M. 45994), *Middlemost* (E. L. Stephens 517) ; The Wilderness, *Doidge*, 17794 ; Deepwalls, *J. Phillips* (v. d. Byl 2221) 18147.

Lycoperdon polymorphum Vitt.

Lloyd (1920) 1010 ; Verwoerd (1925 a) 30 ; Hopkins (1938 a) 115 ; Nel (1942) 69 ; Bottomley (1948) 557.

Lycoperdon furfuraceum Schaeff. ex de Toni, Sacc. Syll. Fung. VII : 101, 445.

Lycoperdon cepaeforme (Bull.) Mass., Lloyd (1911 b) L. 38 : 3, (1922) 1160 ; Verwoerd (1925 a) 31.

as *Lycoperdon oblongisporum* Berk. & Curt., Lloyd (1920) 960 ; Verwoerd (1925 a) 32 ; van der Byl (1925 b) 196.

in grassy places or under trees, near Somerset East, *MacOwan ;* Papegaaisberg, *Duthie 303* (v. d. Byl 2035) 31471 ; Forest Hall, Knysna, *Duthie 211*, 31400; Garstfontein, *Bottomley*, 30704, *Pienaar*, 1355 ; Roseville, Pretoria, *Pienaar*, 1939; Rietvlei, Pretoria, *Bottomley*, 34590 ; Sunnyside, Pretoria, *Pole Evans*, 6683 ; Pretoria, *King*, 12339, *Reinecke*, 23138 ; Wonderboom, *King*, 10051 ; Meintjes Kop, *Bottomley*, 20390 ; Vereeniging, *Brandmüller*, 20635 ; Fountains Valley, *Bottomley & Louwrens*, 28592 ; Bloemfontein, *Potts*, 13001, *Lennard*, 20653 ; Ingogo, *Mogg*, 13796 ; without locality, ex Herb. Lloyd (v. d. Byl 1421).

Lycoperdon pusillum Batsch ex Pers.

Kalchbrenner (1882 a) 109 ; Massee (1887) 723 ; Verwoerd (1925 a) 31, (1931 a) 300 ; Hopkins (1938 a) 115 ; Nel (1942) 69 ; Bottomley (1948) 558.

Bovista pusilla (Fr.) de Toni, Massee (1889 b) 65.

on soil, Somerset East, *Tuck* (MacOwan 115 b) ; Brandfort, *Schonken* (*Duthie 296*) 31465, *Verwoerd* (v. d. Byl 2082) ; Bloemfontein, *Potts*, 13002, 13007 ; Pretoria, *Reinecke*, 23150, *Bottomley & Scott*, 33773, *Bottomley*, 35529 ; Potchefstroom, *Sellschop*, 35527 ; Gezina, *N. Roberts*, 2044 ; Garstfontein, *Bottomley*, 35427 ; Papegaaisberg, *Duthie 318*, 31483 ; Salisbury, *Eyles 7220* (Rh. 3915) Kew, *Hopkins* (v. d. Byl 2539) ; Alicedale, 12185 ; without locality, *v. d. Byl 2082 ;* Avondale (Rh. 153).

Lycoperdon Qudenii Bottomley

Bottomley (1948) 559.

on humus in forest, udeni Forest, *Talbot*, 34144, Type, Kew.

Lycoperdon rhodesianum Verw.

Verwoerd (1928 b) 237 ; Bottomley (1948) 554.

on ground, Salisbury, *Eyles 4223* (v. d. Byl 2412), Type.

Lycoperdon subincarnatum Peck

Bottomley (1948) 553.

on fallen trees or amongst moss on dead wood, Cathkin Peak, *Lawrence*, 35337.

Lycoperdon umbrinum Pers.

Lloyd (1914) L.53 : 13 ; Verwoerd (1925 a) 31 ; Nel (1942) 69 ;Bottomley (1948) 560.

on ground, Stellenbosch, *Duthie* 218 ; Kirstenbosch, *Duthie* 44 (v.d. Byl 2036 ; Stell. 182) 31315.

Mycenastrum corium (Guers. ex DC.) Desv.

Lloyd (1917 a) L. 65 : 3, 7, (1922) 1160 ; Verwoerd (1925 a) 26, (1931 a) 300 ; van der Byl (1925 b) 196 ; J. Phillips (1931) 161 ; Nel (1942) 69 ; Bottomley (1948) 582.

Sterrebeckia Geaster Fries (1848) 30.

Mycenastrum phaeotrichum Berkeley (1843 b) 518.

on ground, Durban, *Wahlberg ;* in forests near Uitenhage, *Zeyher 80 ;* Brenton, Knysna, *Duthie 319, 321* (v. d. Byl 1089) 31484, 31503 ; Huisrivierberge, *v. d. Byl 1071 ;* Clanwilliam, *Duthie 166 ;* Burghersdorp, *Gideon Joubert*, 9687 ; Sevenfontein, nr. Swellendam, *Pole Evans*, 12178 ; Port Elizabeth, *Haslam*, 28863 ; near Grahamstown, *Hewitt*, 24899 ; Wolmaransstad, *Nieuwoudt* (Stell. 565) ; Buffelspoort, *Bottomley*, 26638 ; between Heidelberg and Standerton, *Murray*, 28819 ; near Plat Rivier, *Pienaar*, 9305 ; Pretoria, *Pole Evans*, 12899 ; Irene, *Pole Evans*, 21927 ; Greefswald, on banks of the Limpopo River, *Pole Evans*, 33244 ; Ermelo, *Brink* (v. d. Byl 1094) ; Brandfort, *Verwoerd* (Stell. 224 ; v. d. Byl 2080) ; Stellenbosch, *Loseby* (E. L. Stephens 84).

GEASTREAE.

Geastrum ambiguum Mont.

Fischer (1889) 6 ; P. Hennings (1892) 362 ; Cunningham (1944) 174 ; Bottomley (1948) 591.

Geaster Drummondii Berk., Lloyd (1902) 12 ; N. J. G. Smith (1935) 276.

Geaster striatulus Kalchbr., Lloyd (1920) 1010 ; Verwoerd (1925 a) 21, (1931 a) 300 ; Nel (1942) 69.

Geaster Schweinfurthii P. Hennings (1892) 361.

in sand, or in open or shaded ground, Dundee, *Doidge*, 956 ; under *Acacia Karroo*, Bedford, *Gane*, 9199 ; on termite hill, Butterworth, *Doran* (Pegler 2367) 9200 ; nr. Graafwater, *Pole Evans*, 33182 ; Garstfontein, *Pienaar*, 1353 ; St. Helena Bay, *Smithers* (E. L. Stephens 423) 35122 ; Sibangwana, *Martley*, 35021 ; Stellenbosch, *Duthie*, 35032 ; nr. Grahamstown, Queenstown, Tarkastad and Alice, *N. J. G. Smith 90. 171*, Kew ; Port Elizabeth, *Archibald* ; Stellenbosch, *Nel* (Stell. 1105, 1139) ; Brandfort, *Verwoerd* (Stell. 2083) ; Olukonda, *Schinz* ; ? bank of Aughrabies River, *Barnard*, (S.A.M. 45945).

Geastrum arenarium Lloyd.

Lloyd (1907) 28, (1924) 1294 ; Verwoerd (1925 a) 41 ; N. J. G. Smith (1935) 273 ; Stevenson & Cash (1936) 178 ; Bottomley (1948) 600.

on sandy soil, Tarkastad, *West*, 27512 ; Grahamstown, 9198 and *N. J. G. Smith 173* ; Mauritzfontein nr. Kimberley, *J. Acocks*, 28637 ; Queenstown, *Hall* ; Bollellacarpu nr. Kuruman, *Rennie* ; Fort Hare, *Giffen*, 27503.

Geastrum Bryantii Berk.

Lloyd (1920) 1010 ; Verwoerd (1925 a) 23 ; N. J. G. Smith (1935) 274 ; Nel (1942) 68 ; Bottomley (1948) 589.

amongst decayed leaves, Fountains, *Bottomley*, 21200 ; without locality, (v. d. Byl 1422, ex Herb. Lloyd) ; Pretoria, *Martin* (N. J. G. Smith 91).

Geastrum campestre Morgan

N. J. G. Smith (1935) 275 ; Cunningham (1944) 165 ; Bottomley (1948) 590.

on ground and in humus, Mooibank, Potchefstroom Distr., *Lawrence*, 18123, 18124 ; Irene-Delmas road, *Pole Evans*, 24921 ; Carolina, *Young* (N. J. G. Smith 179) ; Queenstown, *Pope* (N. J. G. Smith 7) Kew ; South West Africa, *Dinter*.

Geastrum dissimile Bottomley

Bottomley (1948) 592.

in humus under trees and bushes, Fountains, *Howlett*, 12790, *Lansdell & Bottomley*, 28457, *Bottomley*, 14515 b Type ; Johannesburg, *Bottomley*, 35132 ; Fairy Glen, *Reinecke*, 23165.

Geastrum fimbriatum Fr.

Cooke & Kalchbrenner (1881) 27 ; Kalchbrenner (1882 a) 108 ; Fischer (1889) 7 ; de Toni (1887) 75 ; Sacc. Syll. Fung. VII : 82 ; P. Hennings (1892) 362 ; Verwoerd (1926 a) 291 ; Cunningham (1944) 176 ; Bottomley (1948) 597.

on soil amongst dead leaves, Boschberg, *Tuck* (MacOwan 1124 ; S.A.M. 35059) 21941 ; Olukonda, Amboland, *Schinz*.

Doubtful record, fide Bottomley l.c.

Geastrum floriforme Vitt.

Hollós (1904) 68 ; Verwoerd (1925 a) 21, (1931 a) 300 ; N. J. G. Smith (1935) 277; Nel (1942) 68 ; Cunningham (1944) 177 ; Bottomley (1948) 602.

Geastrum Pazschkeanum P. Hennings (1900 d) (55) ; Sacc. Syll. Fung. XVI : 239.

on ground, Devils Peak, *MacOwan* (Rabenh. Fung. Eur. 4452) Kew ; Pretoria, *Doidge*, 957, *Pienaar*, 1968 ; Krugersdorp, *Pretorius*, 23625 ; Matatiele, *Gideon Joubert*, 26577 ; Rapenberg Golf Course, Cape, *Pocock* (E. L. Stephens 218) 27272 ; Stikland, *J. Acocks*, 27274 ; Stellenbosch, *v. d. Byl 1107 ;* Brandfort, *Verwoerd* (v. d. Byl 2083), ; Elsenburg, 25029 ; Grahamstown, *N. J. G. Smith 19, 28 ;* Stellenbosch, *Eyles 6756.*

Geastrum fornicatum (Huds.) Fr.

Lloyd (1907) 343, (1910 d) L. 35 : 3 ; Nel (1942) 68 ; Bottomley (1948) 601.

Geaster fenestratum (Pers.) Fisch., N. J. G. Smith (1935) 278.

in humus under bushes and trees, Belvidere, Knysna, *Duthie '95* (v. d. Byl 1092) 31349, *Eyles 6658* (Rh. 3861) Johannesburg, *Bottomley*, 35132 ; Platrivier, *Pienaar*, 1966 : Saltpan nr. Waterpoort, *Schweickerdt*, 26623 ; Trappes Valley, *Cronwright* (N. J. G. Smith 9) 12466 ; Tarkastad, *West* (N. J. G. Smith 33) ; Commadagga (N. J. G. Smith 96) ; Kentani, *Pegler 2386*, 9419 ; Kimberley, *Wilman*, 12317 ; under Acacia, Mauritzfontein, *J. Acocks*, 28636.

Geastrum Hieronymi P. Henn.

Lloyd (1923) 1176 ; Verwoerd (1925 a) 22 ; van der Byl (1925 b) 196 ; N. J. G. Smith (1935) 279 ; Nel (1942) 68 ; Bottomley (1948) 602.

on ground amongst vegetable debris, Brenton, Knysna, *Duthie 290* (Stell. 125 ; v. d. Byl 1091) 31460 ; Grahamstown, *N. J. G. Smith ;* Platrivier, *Pienaar*, 1967 ; Kromrivier, *Doidge & Bottomley*, 35121.

Geastrum hygrometricum Pers.

Kalchbrenner (1882 a) 109 ; de Toni (1887) 129 ; Sacc. Syll. Fung. VII : 90 ; Verwoerd (1926 a) 291 ; Marloth (1913) 21 ; Bottomley (1948) 603.

in manured garden soil, Somerset East, *MacOwan & Tuck* (MacOwan 1060 ; S.A.M. 35065) 35305 ; under pine trees, Pretoria, *Watson*, 25435, Bottomley, 20421, 23724.

Geastrum limbatum Fr.

Kalchbrenner (1882 a) 108 ; de Toni (1887) 73 ; Sacc. Syll. Fung. VII : 81 ; Massee (1889 b) 79 ; Cheesman (1909) 409 ; Lloyd (1924) 1294 ; Verwoerd (1925 a) 41 ; Bottomley (1948) 594.

Geastrum limbatum var. *ellipsostoma* N. J. G. Smith (1935) 269.

under trees and bushes, Somerset East, *MacOwan 1236 ;* Palm Kloof, Victoria Falls, *Cheesman ;* under Acacias, Fountains Valley, *Bottomley*, 20395, 28652 ; Meintjes Kop, *Bottomley*, 14501, 20434 ; Town Bush, *Rump 313*, 28675 ; under wattle trees, Hopevale, *Morgan & Doidge*, 28812, 28813, 28623, 35023, 35026 ; under *Podocarpus*, Hogsback, *Lyle* (N. J. G. Smith 35) 27809 ; Haenertsburg, *Doidge*, 27803 ; Gasstfontein, *Bottomley* 35133, *Doidge*, 35018 ; Xumeni Forest, *Doidge*, 35167 ; Brenton, Knysna, *Duthie*, 35028.

Geastrum MacOwani Kalchbr.

Kalchbrenner (1882 a) 108 as *Geaster MacOwani ;* de Toni (1887) 131 ; Sacc. Syll. Fung. VII : 91 ; Lloyd (1907) 311, (1910 d) 475 ; Hollós (1904) 62 ; Verwoerd (1925 a) 41 ; N. J. G. Smith (1935) 279 ; Bottomley (1948) 604.

on ground, Cape, without locality, *MacOwan ;* without locality, *Plöttner.*

Doubtful species.

Geastrum mammosum Chev.

N. J. G. Smith (1935) 274 ; Bottomley (1948) 600.

on ground in open or wooded places, Swakop River, between Omaruru and Okahandja, *N. J. G. Smith 98.*

Gaestrum minimum Schw.

Hollós (1904) 77 ; Lloyd (1910 d) L. 35 : 3, (1920) 1010 ; Verwoerd (1925 a) 22 ; Bottomley (1948) 593.

Geaster granulosus Fuck., de Toni (1887) 74 ; Kalchbrenner (1882 a) 108 ; Sacc. Syll. Fung. VII : 82 ; Verwoerd (1925 a) 41.

Geaster calceus Lloyd (1907) 311 ; Sacc. Syll. Fung. XXI : 478 ; Verwoerd (1925 a) 41 ; Stevenson & Cash (1936) 179.

? as *Geaster minimus* (Pers.) Fischer, N. J. G. Smith (1935) 270.

in humus, amongst shrubs, at foot of Boschberg, *MacOwan 1174* (S.A.M. 35063) 35304 ; under pine trees, Grahamstown, *N. J. G. Smith 34*, 25899, Kew ; Kentani, *Pegler 1370*, Kew ; Johannesburg, *Knox-Davies*, 20394 ; under *Acacia caffra*, Fountains, *Pole Evans*, 8781 ; Magaliesberg, *V. A. Putterill*, 11006 ; on open ground amongst rocks, Premier Mine, *Pole Evans*, 7100 ; without locality, *Plottner* (Lloyd Myc. Coll. 57280 as *G. calceus*) ; Cape, without locality, *MacOwan*, Kew.

Geastrum mirabile Mont.

Bottomley (1948) 598.

under trees, Rooikopjies Plantation, Duivelskloof, *Read* (T.R.L. 199, det. Wakefield) 35022.

Geastrum nanum Pers.

Bottomley (1948) 589.

on ground or in humus, in open or shaded places, Pretoria, Punt, 17004 ; Irene, *J. C. Smuts*, 26600 ; Kromrivier, *Doidge & Bottomley*, 35123 ; Grahamstown, *N. J. G. Smith 55*, 27513 ; Elim, *Thomas*, 26601 ; Potchefstroom, *Sellschop*, 28271 ; in red sand under Acacia, Mauritzfontein, *J. Acocks 401*, 35130 ; Mossel River, nr. Hermanus, *Esterhuysen* (E. L. Stephens 446) 35024 ; Fishhoek, *Peers* (E. L. Stephens 445).

Geastrum pectinatum Pers.

Lloyd (1911 b) L. 38 : 3, (1916 d) L. 63 : 4, (1920) 1010, (1922) 1160 ; Verwoerd (1925 a) 23 ; N. J. G. Smith (1935) 274 ; Stevenson & Cash (1936) 181 Cunningham (1944) 163 ; Bottomley (1948) 588.

Geaster plicatus Berk., Lloyd (1922) 1122 ; Verwoerd (1925 a) 23 ; N. J. G. Smith (1935) 274 ; Nel (1942) 69 ; Cunningham (1944) 163.

? as *Geaster plicatilis* in van der Byl (1922 d) 286.

Geaster Schmidelii Vitt., Lloyd (1911 b) L. 31 : 2.

in humus under trees and bushes, Fountains, *Lansdell*, 11807, *Howlett*, 12789, *Punt*, 14513, *N. J. G. Smith*, Kew ; Silverton, *Reinecke*, 23202 ; Johannesburg, *Dyke*, 26587 ; Xumeni Forest, *Doidge*, 28904, 28905 ; Stellenbosch, *v. d. Byl 479* (Stell. 121), *Verwoerd* (v. d. Byl 2032) ; Bosfontein, *Doidge & Bottomley*, 35120 ; Garstfontein, *Doidge*, 1337, Kew as *G. tenuipes* : Meintjes Kop, *Bottomley*, 20388 ; Tarkastad, *N. J. G. Smith 33 b* ; Queenstown, *Pope*, (N. J. G. Smith 97).

Geastrum quadrifidum Pers.

Bottomley (1948) 591.

Geaster coronatus (Schaeff.) Schroet., Lloyd (1920) 952 ; Verwoerd (1925 a) 22 ; van der Byl (1921 g) 345, (1925 b) 196.

in humus under trees and bushes, Stella Bush, *Moonsamy* (v. d. Byl 689) 31895 ; Umgeni, *Hobbs* (v. d. Byl 754) 31942 ; Durban, *v. d. Byl 524*, 35131.

Geastrum saccatum Fr.

Lloyd (1907) 343, (1911 b) L. 38 : 3, (1916 d) L. 63 : 4, (1917 a) L. 66 : 3, L. 67 : 5, (1920) 960, 1010, (1922) 1160, 1120, 1124 ; van der Byl (1921 g) 346 ; Verwoerd (1925 a) 21 ; N. J. G. Smith (1935) 270 ; Hopkins (1938 a) 115 ; Bottomley (1948) 597.

usually in humus under trees, Pretoria, *Bottomley & Punt*, 20584, *Bottomley*, 14502, 18182, 20393, *Doidge*, 14482, *Punt*, 17003, *Pole Evans*, 6684, 7099, 8810 ; Fountains, *Pole Evans*, 8765, *Reinecke*, 23146, *Bottomley*, 14642, 14495, 14480, 18139 ; Fairy Glen, *Reinecke*, 23166, *Doidge*, 32201 ; Silverton, *Reinecke*, 23196 b ; Garstfontein, *Doidge*, 35019, 35033, *Bottomley*, 35134, 35135 ; Barberton, *Thorncroft*, 18125 ; Sibasa, *Junod*, 12825 ; van Reenen, *Franks*, 5665 ; Sweetwaters, *Spencer*, 30831 ; Brenton, Knysna, *Duthie 174*, 31382 and *Duthie 95, 235, 289* ; Kirstenbosch, *J. Acocks*, (E. L. Stephens 370) 27672 ; Umtali, *Eyles 4227* (v. d. Byl 2416) ; Salisbury, *Eyles 4086* (v. d. Byl 2350) ; Natal, *J. M. Sim*, 9440 ; Durban, *v. d. Byl 618* ; Schroeders, *v. d. Byl 898* : Kentani; *Pegler 1425 a*, 34449, *Pegler 1370*, 8418, 34450, Kew ; Hermanus, *MacPherson*, 31492 , Bulwer, *Rump 464*, 35302 ; Montagu, *D. v. H.*, 35025, 35027 ; Sterkstroom, *du Plessis*, (*Duthie* 214) ; Somerset Strand, *Verwoerd* (Stell. 124) ; South West Africa, *Dinter*

Geastrum triplex Jungh.

N. J. G. Smith (1935) 270 ; Bottomley (1948)595.

Geaster capensis von Thuemen (1877 a) 408 ; de Toni (1887) 126 ; Sacc. Syll. Fung. VII : 126 ; Lloyd (1902) 42 ; Verwoerd (1926 a) 292.

? *Geaster affinis* Colenso, Verwoerd (1925 a) 41 ; Bottomley (1948) 604.

Geaster coriaceus Colenso, Verwoerd, l.c. ; Bottomley, l.c.

amongst vegetable debris under trees ans shrubs, Pretoria, *Howlett & Coetzee*, 2136 ; Fountains, *Lansdell*, 11808, *Howlett*, 12791, *L. C. Turner*, 8811, *Bottomley & Louwrens*, 28458 ; Silverton, *Reinecke*, 23196 ; Garstfontein, *Pienaar*, 1352, 1354, 1356, Kew ; Meintjes Kop, *Bottomley*, 20422 ; Aapies River, *E. J. Scott*, 33755 ; Potchefstroom, *M. Gunn*, 30512 ; nr. Umtata Falls, *McLoughlin*, 30508 ; Brenton, Knysna, *Duthie 322*, 31486 ; Papegaaisberg, *Duthie 307*, 31475, 35031 ; Kirstenbosch, *Bottomley*, 24840 ; Hopevale, *Doidge*, 35118, 35119, *Morgan*, 32200, 35017 ; Qudeni, *Gerstner*, 30758 ; Cape Peninsula, *E. L. Stephens 140* ; Kirstenbosch, *A. M. Acocks* (E. L. Stephens 371) 27676 ; Kentani, *Pegler 1978*, 9546 ; Haenertsburg, *Thompson* (T. R. L. 280) 29938 ; Orange Free State, without locality, *Olivier*, (E. L. Stephens 444) 35020 ; Boschberg, *MacOwan 1236* (S.A.M. 35057) 35303, Kew ; Inanda, *Medley Wood*, 489, 11154, 10414 ; without locality, *J. M. Sim*, 9440, *Marloth*, 26615.

Geastrum velutinum Morgan

N. J. G. Smith (1935) 2 ; Bottomley (1948) 599.

without locality, 35292 ; eastern Cape, *Marloth* ; ? Grahamstown, *N. J. G. Smith 162*.

Geasteropsis Conrathi Hollós.

Hollós (1903 72 ; Sacc. Syll. Fung. XVII : 229 ; Bottomely (1948) 606.

on termite hills and on ground, Modderfontein, and Johannesburg, *Conrath* : Rietvlei, Pretoria, *J. Acocks*, 34141 ; Garstfontein, *Pienaar*, 2278 ; Clarens, *v. d. Plank*, 35574 ; Danielskuil, *Esterhuysen* (E. L. Stephens 510).

Myriostoma coliformis (Dicks. ex Pers.) Corda.

Verwoerd (1925 a) 24 ; van der Byl (1925 b) 196 ; Fischer (1933) 74 ; Nel (1942) 69 ; Bottomley (1948) 605.

Geaster coliformis Dicks. ex Pers., Kalchbrenner (1882 a) 108 ; Hennings (1892) 361 ; Hollós (1904) 47, 130.

Bovistoides simplex Lloyd (1919) 883 ; Verwoerd (1925 a) 28 ; Fischer (1933) 66 ; Stevenson & Cash (1936) 170 ; W. H. Long (1942) 532.

in open ground, or in leaf mould under trees, Pretoria, *H. A. Wager*, 7726 ; Wonderboom, *Kresfelder*, 9793, 10048 ; Pelindaba, *Watson*, 24952 ; near Grahamstown, *Britten*, 33382 ; Grahamstown, *N. J. G. Smith ;* Boschberg, *MacOwan 1234* (S.A.M. 35056) 21940 ; Alicedale, *Cruden*, 12958 ; Knysna, *Duthie 112* (v. d. Byl 1090) 31355 ; Belvidere, Knysna, *Duthie 59, 95 ;* Cradock, *Gush ;* Garstfontein road, *Bottomley*, 35166 ; Ubombo, *Bell Marley* (v. d. Byl 870) ; Stikland. *J. Acocks* (E. L. Stephens 116, 171) ; Heathfield, *Cousins* (E. L. Stephens 443) ; Blikfontein, *J. Acocks*, 35301 ; Huisrivierberge, *v. d. Byl 1071.*

TULOSTOMATACEAE.

Batarrea Diqueti Pat. et Har.

Botomley (1948) 621.

on termite heap, Dongola Reserve, *Pole Evans*, 20459.

Batarrea phalloides (Dicks.) Pers.

Berkeley (1843 b) 517 ; Massee (1889 b) 87 ; Hollós (1904) 41 ; Lloyd (1916 d) L. 63 : 4, (1922) 1124 ; Verwoerd (1925 a) 13 ; van der Byl (1925 b) 195 ; J. Phillips (1931) 161 ; Fischer (1933) 501 ; Nel (1942) 68 ; Bottomley (1948) 619.

on the ground, Uitenhage, *Zeyher 114 ;* Kalk Bay, *Levyns* (v. d. Byl 1305).

Batarrea Stevenii (Lib.) Fr.

Lloyd (1906 a) 6 ; Sacc. Syll. Fung. VII : 66 ; Bottomley (1948) 620.

Sphaericeps lignipes Welwitsch & Currey (1868) 290 ; Fischer (1933) 50.

on ground, Kaapmuiden, *Wager*, 7735 ; Postmasberg, *Wilman*, 12517 ; Willowmore, *Schonland*, 12518 ; Sekukuni, Lydenburg Distr., *Barnard*, 28261, 28517 ; Fauresmith, *Pont*, 28584 ; on banks of the Caroca River near Cabo negro, *Welwitsch 150 ;* Koffiefontein, *Schulz*, 9535 ; Rouxville, *Wickens*, 11294 ; Knapdaar, *Gideon Joubert*, 18112 ; Lourenço Marques, *van Nouhuys*, 25936 ; Saltpan, Louis Trichardt, *Schweickerdt*, 26622 ; Knysna, *Bottomley*, 30743 ; *Duthie 134*, 31362 ; Pringles Bay, *Compton* (E. L. Stephens 461) ; Bantry Bay, *V. A. Putterill*, 28669 ; foothills of the Langebergen, *Marloth*, 13437.

Chlamydopus Meyenianus (Klotzsch) Lloyd

Bottomley (1948) 625.

in sandy soil, without locality, 35339.

Dictyocephalos attenuatus (Peck) Long. & Plunkett

Long & Plunkett (1940) 697 ; Bottomley (1948) 626.

as *Phellorina strobilina* Kalchbr. in Lloyd (1917 c) 735.

on ground, Wankie, *Giese*, comm. Duthie (Lloyd Myc. Coll. and Nat. Museum, Bulawayo).

Phellorina inquinans Berk.

Berkeley (1843) 521 ; Verwoerd (1925 a) 14 ; Sacc. Syll. Fung. VII : 145 ; Fischer (1933) 41 ; Cunningham (1944) 194 ; Bottomley (1948) 623.

Phellorina Delastrei (Dur. & Mont.) Fisch., Lloyd (1914) L. 49 : 4.

on sandy soil, Uitenhage, *Zeyher 98*, Type ; Knapdaar, *Gideon Joubert*, 11541, 18111, 28519, 28739 ; Springbok Flats, *Roberts*, 2277 ; Kroonstad, *Pont*, 24934 ; Winburg, *Haslem*, 33272 ; Kingwilliamstown, *Leighton*, 26409 ; Barkly West, *J. Acocks*, 28633; Clanwilliam, *Duthie 203*, 31398 ; Vaal River, Kimberley, *H. H. W. Pearson.*

Phellorina strobilina Kalchbr.

Lloyd (1918 a) 734, (1917 a) L. 66 : 13, (1922) 1124, (1924) 1318 ; Verwoerd (1925 a) 14 ; Bottomley (1948) 624.

Phellorina squamosa Kalchbrenner & MacOwan, Kalchbrenner (1882 a) 109 ; Verwoerd (1925 a) 40.

on ground, Rust der Winter, *Pole Evans*, 28645 ; Saltpan, Louis Trichardt, *Verwoerd & Schweickerdt*, 27456 ; on hard red clay, Limpopo, *Pole Evans*, 21019 ; Brits, *Marais*, 20409 ; Glen, *Potgieter*, 14506, *Sellschop*, 28270 ; Kroonstad, *Pont*, 25342 ; Brandfort, *Schonken*, 31468 ; Fauresmith, *Liebenberg*, 33250 ; Knapdaar, *Gideon Joubert*, 18110, 11814 ; Aliwal North, *Wickens*, 10137 ; Uitenhage, *MacOwan 1095* (S.A.M. 35081) 20919 ; without locality, *Marloth*, 26591, 26620 ; Little Namaqualand, *Stokoe*, 26619 ; Winburg, *Radloff* (v. d. Byl 1440), *Haslem*, 33271, 33461 ; Willowmore, *Brauns* (v. d. Byl 2508) ; Warmbaths, *Rowland*, 28808 ; Calvinia, *Schmidt*, 28809 ; Clanwilliam, *Berg* (Duthie 26) 31304 ; Bon Accord Dam, *Leemann*, 25434 ; Fauresmith, *Henrici*, 35276 ; Brandfort, *Duthie 300 ;* Southern Rhodesia, *Duthie 189*.

Podaxis pistillaris (Linn. ex Pers.) Fr.

Morse (1933) 27 ; Fischer (1933) 117 ; Bottomley (1948). 628.

Podaxon pistillaris (Linn. ex Pers.) Fr., Berkeley (1845) 291 ; Kalchbrenner, (1882 a) 107 ; Sacc. Syll. Fung. VII : 59 ; Medley Wood (1898) 18.

Lycoperdon carcinomale Linn. f. (1781) 453 ; Thunberg (1823) 756.

Scleroderma carcinomale (Linn. f.) Persoon (1801) 151 ; Pappe (1850) 31.

Podaxon carcinomalis (Linn. ex Pers.) Fries (1829) 621 ; Berkeley (1843) 522 ; Montagne (1847) 176 ; Pappe (1857) 45 ; Cooke (1879 b) 70 : Kalchbrenner (1882 a) 107 ; Fischer (1889) 1 ; Sacc. Syll. Fung. VII : 58 ; Lloyd (1904 b) 1, (1913 c) L. 47 : 3 ; P. Hennings (1892) 359, (1906) 702 ; Schultze (1907) 705 ; van der Byl (1918 a) 209, (1922 d) 287 ; Watt. & Breijer Brandwyk (1932) 215 ; Smith & Pope (1934) 95.

Podaxis carcinomalis (Linn. ex Pers.) Fr., Massee (1890) 75 ; Morse (1933) 12, 27.

Podaxon elatus Welwitsch & Currey (1868) 288 ; Lorrain Smith (1901) 465 ; Sacc. Syll. Fung. VII : 59.

Podaxon aegypticus Mont., Fischer (1889) 4 ; P. Hennings (1892) 359.

Podaxis aegyptica Mont., Massee (1890) 76.

Podaxon mossamedensis Welwitsch & Currey (1868) 288 ; Lorrain Smith (1901) 465 ; Sacc. Syll. Fung. XI : 158 ; Fischer (1933) 117.

Podaxis mossamedensis Welw. & Curr. Massee (1890) 76.

Podaxis indica Spreng., Massee (1890) 75.

on termite hills and in sandy places, Gansekraal, *Thunberg ;* without locality, *Burchell ;* Uitenhage, *Zeyher 99*, Kew ; between ' Omtendo ' and ' Omsamculo ', *Drège 9454 a, c, & 4115*, Kew, *Drège 9545 d*, Paris ; Klapmuts, *J. Acocks*, (E. L. Stephens 400) ; between Koelenhof and Mulders Vlei, *J. Acocks* (E. L. Stephens 414) ; Somerset West Flats, *Garside* (E. L. Stephens 507) ; Stellenbosch, *Krige* (Duthie 283 a) ; Greenville Mission, *Schaefer*, 28260; Karroo, *Duthie 24 ;* Hopetown-de Aar road, *Schweickerdt*, 26690 ; Knapdaar, *Gideon Joubert*, 14507, 18109 ; 20 mis. north of Dordrecht, *Dyer*, 35425 ; Between Windsorton and Klipdam. *J. Acocks*, 28641 ; Kimberley, *Broome*, 27369 ; *Radloff* (v. d. Byl 1183) ; Postmasberg, *Esterhuyzen* (E. L. Stephens 509) ; without locality, ex Herb. Marloth, 26591 ; north of Zastron, *Dyer ;* north-east of Rouxville, *Dyer ;* Bloemfontein, *Exton* (MacOwan 1362, S.A.M. 34317) 22070 ; Kroonstad, *v. d. Byl*, 5585 ; Orange Free State, *Exton* (MacOwan 1040) ; Hennops River, *Pole, Evans*, 5125, 20660 ; Pretoria, *Pole Evans*, 1186, 14682, *Wager*, 23672, *Schweickerdt* 27280 ; Pretoria-Johannesburg road, *Kresfelder*, 26602 ; Garstfontein, *Pienaar*, 1689, *Pole Evans*, 2120 ; Skinners Court, *Pole Evans*, 2119 ; Hamanskraal, *Thompson*, 1484 ; Welgevonden, *Mogg*, 28254 ; Brits, *Pont*, 25915 ; Pietersburg, *N. Roberts*, 5182 ; Sand

River Drift, Messina, *Pole Evans*, 9789 ; Impati Hills, Dundee, *Doidge*, 7362 ; Inanda, *Medley Wood 405*, Kew ; Estcourt, *West*, 29955, *Lansdell*, 30714 ; Eshowe, *Howlett*, 25361 ; Boroma, *Menyharth* ; South West Africa, *Luckhoff* (E. L. Stephens 399) ; Great Namaland, *Schultze* ; Olukonda, *Schinz* ; between Lopollo and Monimo, *Welwitsch 148* ; on banks of river Maiombo, *Welwitsch 149*.

Tulostoma adherens Lloyd

Bottomley (1948) 618.

? on sandy soil, Stellenbosch Flats, *Duthie* (E. L. Stephens 66) 31505.

Tulostoma albicans White

Bottomley (1948) 611.

on sandy or on heavy ground, Ladybrand, *Lefebre*, 20672 ; Fountains, *Pole Evans*, 8764 ; Bloemfontein, 11690 ; Garstfontein, *Pienaar*, 1969 ; Pretoria, *Doidge*, 14481 ; under *Acacia* trees, Mauritzfontein, *J. Acocks*, 28638.

Tulostoma album Massee

Bottomley (1948) 610.

in sheep kraal, Bathurst, *K. M. Putterill*, 28528.

Tulostoma angolense Welw. & Curr.

Welwitsch & Currey (1868) 290 ; Sacc. Syll. Fung. VII : 64 ; Lorrain Smith (1901) 465 ; Bottomley (1948) 618

on sand hills near Mossamedes, Welwitsch 147 ; on decaying wood, South Africa, *MacOwan*, Kew.

Doubtful species.

Tulostoma australianum Lloyd

Bottomley (1948) 617.

on sandy ground, Fauresmith, *Henrici*, 28311 ; Fort Hare, *Giffen*, 27501.

Tulostoma bonianum Pat.

Bottomley (1948) 612.

on ground under bushes, Garstfontein, *Pienaar*, 1969, *Doidge*, 1344 ; Garstfontein road, *Doidge & Bottomley*, 30617 ; Fountains, *Bottomley*, 14499, 20378.

Tulostoma brumale Pers.

Bottomley (1948) 613.

Tulostoma mammosum Fr., Berkeley (1843 b) 520 ; Massee (1889 b) 86 ; Lloyd (1916 d) L. 63 : 11 ; Pole Evans & Bottomley (1918) 193 ; Verwoerd (1925 a) 12.

as *Tulostoma squamosum* (Gmel.) Pers., Kalchbrenner (1882 a) 107.

as *Tulostoma mammosum* Fr. var. *squamosum* (Gmel.) Fr., Sacc. Syll. Fung. VII : 61.

on ground, nr. Koega River, *Zeyher 123* ; Somerset East, *Tuck* (MacOwan 1295) 20928, 20946, Kew ; Portland, Knysna, *Duthie 147*, 31371 ; Stellenbosch, *Verwoerd* (Stell. 43 ; v. d. Byl 2033) ; Kentani, *Pegler 753*.

Tulostoma cyclophorum Lloyd

Lloyd (1906 a) 25 ; Sacc. Syll Fung. XXI : 476 ; van der Byl (1921 d) 185, (1922 d) 287, (1925 b) 195 : Verwoerd (1925 a) 13 : J. Phillips (1931) 161 ; Stevenson & Cash (1936) 194 ; Nel (1942) 70 ; Bottomley (1948) 615.

on ground, Wellington, *Stoneman* (Lloyd Myc. Coll. 4495, Type) ; Knysna, *Duthie 16, 57, 58, 146, 157, 206* (v. d. Byl 1085 ; Lloyd Myc. Coll. 4494, 14279, 14280, 24519, 24520, 30832, 54734) 31322, 31323, 31370, 31376 ; Stellenbosch, *Duthie* (E. L. Stephens 73), *Eyles* (Stell. 78 ; v. d. Byl 1136 ; Lloyd Myc. Coll. 28934, 28959) ; Grahamstown, *N. J. G. Smith*, 25898, Kew ; Matatiele, *Gideon Joubert*, 27290 ; without locality, *O'Connor* (Lloyd Myc. Coll. 30833).

Tulostoma lacticeps Bres.

Bresadola (1920) 54 ; Sacc. Syll. Fung. XXIII : 591, Bottomley (1948) 614.
on ground, Moçambique, *Torrend 420*.

Tulostoma Lesliei v. d. Byl.

van der Byl (1921 d) 186 ; Verwoerd (1925 a) 12 ; Nel (1942) 70 ; Bottomley (1948) 610.
on soil, Durban, *v. d. Byl 57*, Type and *v. d. Byl 690*, 31896.

Tulostoma MacOwani Bres.

Petri (1904) 429 ; Sacc. Syll. Fung. XXI : 475 ; Verwoerd (1925 a) 40 ; Bottomley (1948) 617.
on ground, without locality, *MacOwan*, Kew.

Tulostoma obesum Cooke & Ellis

Bottomley (1948) 616.
Tulostoma poculatum White, Lloyd (1914) L. 49 : 4 ; Verwoerd (1925 a) 40.
on ground, The Point, Knysna, *Duthie 25* (Stell. 68).

Tulostoma Purpusii P. Henn.

Lloyd (1924) 1249 ; Verwoerd (1925 a) 12 ; Nel (1942) 70 ; Bottomley (1948) 611
on sandy soil, Stellenbosch, *Eyles* (v. d. Byl 1132, 1134) ; in wattle plantation, Hopevale, *Morgan*, 28910, *Doidge*, 27717, *Morgan & Doidge*, 30272 ; Xumeni Forest, *Doidge*, 35336 ; Bloemfontein, *Potts*, 11690.

Tulostoma squamosum (Gmel.) Pers.

Bottomley (1948) 613.
on damp soil, Queenstown, *Pope* (N. J. G. Smith) Kew ; nr. Melkrivier, Karroo, *MacOwan*, Kew.

Tulostoma Transvaalii Lloyd

Lloyd (1920) 1047, 1010 ; Verwoerd (1925 a) 13 ; Stevenson & Cash (1936) 196 ; Bottomley (1948) 615.
on ground, Warmbaths, *V. A. Putterill* (Lloyd Myc. Coll. 22713, Type) 11692.

NIDULARIALES.

NIDULARIACEAE.

Crucibulum vulgare Tul.

Verwoerd (1925 a) 38 ; Nel (1942) 70 ; Bottomley (1948) 632.
on dead twigs, Papegaaisberg, *Loseby* (v. d. Byl 2671) and *de Vos*, 31495 ; Stellenbosch, *Verwoerd* (Stell. 352).

Cyathus Berkeleyanus (Tull.) Lloyd

Lloyd (1917 a) L. 67 : 2, 5 ; (1922) 1160 ; Verwoerd (1925 a) 36 ; van der Byl (1925 b) 196 ; J. Phillips (1931) 161 ; Stevenson & Cash (1936) 200 ; Nel (1942 70 ; Bottomley (1948) 640.

on wood, Belvidere, Knysna, *Duthie 311* (Stell. 110) 31478 and *Duthie* (Lloyd Myc. Coll. 22529, 34552, 34554) ; Nottingham Road, *v. d. Byl 60, 556* (Lloyd Myc. Coll. 34544) 31815 ; Knysna, *Bottomley*, 30744.

Cyathus dasypus Nees.

Lloyd (1911 b) L.38 : 3 ; Verwoerd (1925 a) 37, (1928 b) 238 ; Bottomley (1948) 634.

Nidularia dasypus Fries (1823) 299.

on ground, Caledon, *Verwoerd 194 :* on swampy ground and manure, Cape of Good Hope, without locality.

Cyathus Hookeri Berk.

Lloyd (1920) 1010 ; Bottomley (1948) 636.

on twigs, Hogsback *K. M. Putterill*, 30814 ; Pretoria, *Pole Evans*, 12311.

Cyathus microsporus Tul.

Lloyd (1920) 960, 1010 ; Verwoerd (1925 a) 37 ; van der Byl (1925 b) 196 ; J. Phillips (1931) 161 ; Bottomley (1948) 635.

on dead wood, Knysna, *Duthie 230*, 31416 ; Maritzburg, *J. M. Sim*, 9205 ; without locality, Verwoerd (Stell. 108) ; Stikland, *J. Acocks* (E. L. Stephens 465).

Cyathus minutosporus Lloyd emend. Verw.

Verwoerd (1928 b) 238 ; Lloyd (1924) 1325, 1319 ; Stevenson & Cash (1936) 201 ; Bottomley (1948) 634.

on clayey soil, Heidelberg, Transvaal, *Neethling* (Stell. 330 : Lloyd Myc. Coll. 24889) Type.

Cyathus Montagnei Tul.

Lloyd (1924) 1294 : Verwoerd (1925 a) 36 ; van der Byl (1925 b) 196 ; J. Phillips (1931) 161 ; Nel (1942) 70 ; Bottomley (1948) 640.

on woody fruits, Knysna, *du Preez* (v. d. Byl 1330) ; without locality, *Verwoerd* (Stell. 156) ; Kirstenbosch, *Johns* (E. L. Stephens 554).

Cyathus olla Pers.

Simpson & Talbot (1946) 134 ; Bottomley (1948) 636.

Cyathus laevis Thunberg (1800) 182, (1823) 755.

Cyathus vernicosus (Bull.) DC., Kalchbrenner (1882 a) 107; Sacc. Syll. Fung. VII : 38 ; Lloyd (1906 b) 24, (1911 b) L. 38 : 3, (1912 b) L. 39 : 3, (1914) L. 49 : 4, (1917 a) L. 65 : 4, L. 66, 2, (1920) 1010, 1073 ; van der Byl (1922 d) 286 ; Verwoerd (1925 a) 3, (1931 a) 300 ; Fischer (1933) 59 ; Nel (1942) 71.

on ground and on rotting wood, Cape, *Thunberg :* Somerset East, *MacOwan 1042* (S.A.M. 35075) 20981, Kew : Sea Point, *Duthie 31* ; Stellenbosch, *Duthie 171, 252, 280*, 31389, 31433, 31453, *Champion* (v. d. Byl 2044) ; Wellington, *Bottomley*, 1696 ; Hopefield, *v. d. Byl 1265 :* Lady Grey, *R. I. Nel* (v. d. Byl 2349) ; Knysna, *J. Phillips*, 20608 ; Fishhoek, *Peers* (E. L. Stephens 397) ; Port Elizabeth, *Director of Museum*, 30782 ; Vaalkrantz, Fauresmith, *Botha*, 27573 : Bloemfontein, *Potts*, 13010, *Verwoerd :* Wonderboom, *Reinecke*, 23705 : Fountains Valley, *Mellé*, 11328, *Bottomley*, 18141 ; Pelindaba, *Watson*, 25157 ; Hope Vale, *Doidge*, 28923 ; Maritzburg, *J. M. Sim*, 9205 ; Qudeni Forest, *Simpson & Talbot*, 305503 ; Mamathes, *Hean*, 33494.

Cyathus pallidus Berk. & Curt.

Kalchbrenner (1882 a) 107 ; Sacc. Syll. Fung. VII : 37 ; Lloyd (1915 a) L. 60 : 4 ; Verwoerd (1925 a) 37 ; van der Byl (1925 b) 196 ; J. Phillips (1931) 161 ; Fischer (1933) 59 ; Nel (1942) 71 ; Bottomley (1948) 634.

on dead or decaying wood, Somerset East, *MacOwan :* Pretoria, *Fouché*, 15649, *Hean*, 30727, *King*, 28806 : Fountains, *Hean*, 30692, *Louwrens*, 28619: Fairy Glen road, *Doidge*, 30690 ; Garstfontein, *Hean*, 30689 : Kromrivier, *Doidge & Bottomley*, 33254 ; Lemana, *Doidge*, 1699 ; Grahamstown, *E. L. Stephens 255*, 27275 ; Kingwilliamstown, *Sr. de Victoria*, 25486 ; Knysna, *Duthie 114*, 31357 ; Woodbourne, Knysna, *Duthie 63*, 31327; Deepwalls, Knysna, *Bottomley* 30772 ; Knysna, *Verwoerd* (Stell. 109) ; ? Grahamstown, *N. J. G. Smith*, Kew ; Maritzburg, *Rump 65*, 27681, *Pole Evans*, 1340 ; Mooi River, *Crass* (Rump 444) 28605 : Xumeni Forest, *Doidge*, 27735 ; Hope Vale, *Doidge*, 33257, 33174 ; Pretoria, *Kresfelder*, 28863 ; Mamagalieskraal, *Fouché*, 21084 : Kaapmuiden, *H. A. Wager*, 7727; Johannesburg, *Porter* (v. d. Byl 2550) : Garstfontein, *Doidge*, 1348, 30728, *Doidge & Hean*, 30693 ; Fort, Grahamstown, *N. J. G. Smith* (E. L. Stephens 492 ; N. J. G. Smith 20).

Cyathus Poeppigii Tul.

Cooke (1879 b) 70 ; Verwoerd (1925 a) 36 ; Bottomley (1948) 639.

Cyathus sulcatus Kalchbrenner (1882 a) 107 ; Sacc. Syll. Fung. VII : 36, XI : 156.

as *Cyathus plicatulus* Poepp., Nel (1942) 71.

on old wood and on ground, Inanda, *Medley Wood 334*, 10454, 11186, Kew ; Durban, *v. d. Byl 594, 597 :* Maritzburg, *J. M. Sim*, 8803, *Rump*, 26846, *Rump 544*, 33962 ; de Beers Rust, *Hean*, 30691 ; Sibasa, *Junod*, 12826 ; Port Durnford, *Ballenden*, 32011 : Pretoria, *Punt*, 14500.

Cyathus stercoreus (Schw.) de Toni

Cheesman (1909) 409 ; Verwoerd (1925 a) 37 ; Hopkins (1938 a) 115 ; Nel (1942) 71 ; Lloyd (1908 b) L. 23, (1920) 1010 ; Bottomley (1948) 637.

? as *Cyathus rufipes* Ell. Lloyd (1906 b) 21–22.

on dung, soil or decaying wood, Livingstone Is., Victoria Falls, *Cheesman :* Pretoria, *Pole Evans* (v. d. Byl 1428) 1902 *Bischoff*, 8817, *Bosman*, 23665, *Punt*, 18142, *Kresfelder*, 25870 : Fountains, *Bottomley & Louwrens*, 28620 ; Buffelspoort, *Turner*, 30687 ; Johannesburg, *Moss*, 29941 ; Glen, *Potgieter*, 14690 : Bloemfontein, *Purkiss*, 13015 ; Fort Hare, *Giffen*, 27502 ; Komgha, *Cooke*, 28589 ; Hopevale, *Morgan*, 28922, *Doidge*, 33175, 27718, 35144 ; Brits, 33503 ; Milner Park, Johannesburg (T.R.L. 282) ; Salisbury *Eyles 4104* (v. d. Byl 2347) ; Knysna, *Duthie 311 b* (E. L. Stephens 65) ; Potchefstroom, *Lawrence*, 21929 ; Onderstepoort, *Curson*, 18116 ; Maritzburg, *J. M. Sim*, 8823 ; Kimberley, *Moran*, 8963 : Haenertsburg, *Thompson* (T.R.L. 282) ; Nardouw Pass, *de Kock* (E. L. Stephens 560) ; without locality, 25316.

f. **Leseurii** Tul.

Bottomley (1948) 638.

on manured ground, Brits, *v. d. Plank*, 33503.

SPHAEROBOLACEAE.

Sphaerobolus stellatus Tode ex Pers.

Kalchbrenner (1882 a) 107 ; Sacc. Syll. Fung. VII : 46 ; Verwoerd (1925 a) 39 ; Bottomley (1948) 641.

on old cow dung and on horse dung, near Somerset East, *Tuck* (MacOwan 1190 ; S.A.M. 35083) Kew ; Natal, *Medley Wood 167* and *v. d. Byl :* Pretoria, *Pole Evans*, 8821 ; Fountains Valley, *Bottomley*, 28462 ; Kromrivier, *Doidge & Bottomley*, 30236 ; Ixopo, *Hackland*, 15550 ; Hopevale, *Doidge*, 27719.

DEUTEROMYCETAE.
(FUNGI IMPERFECTI).

SPHAEROPSIDALES.

SPHAERIOIDACEAE.

Hyalosporae.

Asteroma pallidum Kalchbr.

? nomen nudum.
on **Cynanchum ellipticum** (Harv.) R. A. Dyer, Boschberg, *MacOwan 1329* (S.A.M. 35104).

Ceuthospora Oleae Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 19 ; Sacc. Syll. Fung. III : 278.
on **Olea capensis** Linn., Somerset East, *MacOwan 1333*, Type, 22033, Kew.

Cicinnobolus Cesatii de Bary

on **Erysiphe cichoracearum** DC., on *Cucurbita Pepo* Linn., Skinner's Court, *Pole Evans*, 2193.
Sphaerotheca fuliginea (Schlecht.) Salm., on *Coreopsis* sp., Kingwilliamstown, *Nel*, 33376.
Uncinula necator (Schw.) Burr., on *Vitis vinifera* Linn., Pretoria, 754.
Oidium sp., on *Cassia* sp., Nelspruit, *Wager*, 26205.

Coleophoma Oleae (DC.) Petrak & Syd.

Septoria Oleae Dur. & Mont., von Thuemen (1878 a) 357.
on **Olea africana** Mill., Boschberg, *MacOwan 1294*.

Cytospora Australiae Speg.

Doidge & Bottomley (1931) 23.
on **Eucalyptus viminalis** Labill., Wellington, *Taylor*, 13072.

Cystospora chrysosperma (Pers.) Fr.

see *Valsa sordida* Nitschke.

Cytospora foliicola Lib.,

Ceuthospora foliicola Lib., Kalchbrenner (1882 a) 146.
on decaying leaves, Somerset East, *MacOwan*.

Cytospora leucostoma Sacc.

Pole Evans (1913 b) 174 ; van der Byl (1915 a) 545 557 ; Verwoerd (1929 b) 6, (1931 a) 300 : Doidge & Bottomley (1931) 7, 9, 47, 51.
see also *Valsa leucostoma* (Pers.) Fr.
on **Prunus Armeniaca** Linn., Heilbron, *Naudè*, 21051, Kew ; Swinburne, *van der Byl* ; Bloemfontein, *E. G. Smith*, 33985.
Prunus avium Linn., Wargundy Estates, *Bottomley*, 20617.
Prunus persica Sieb. & Zucc., Cedara, *Gill*, 33255 ; Heilbron, *Naudè*, 21050, Kew ; Bloemfontein, *Verwoerd*.

Prunus salicina Lindl. and hybrids, Grootfontein, *v. d. Byl*, 2547 ; Swinburne, *v. d. Byl ;* Henley-on-Klip, *Life*, 21253 ; *Higginson*, 21585.

Pyrus malus Linn., Villiersdorp, *Cresswell*, 26704 ; Great Brak River, *Mally*, 5583 ; Maclear, *Pienaar*, 2154 ; Stormsvlei, *Groenewald* (Stell. 383) ; Stellenbosch, *Verwoerd* (v. d. Byl 889) ; Somerset West, *Verwoerd* (v. d. Byl 1712) ; Pretoria, *Bottomley*, 23346 ; Johannesburg, *Rocher*, 17791, *Ordish*, 25983 ; Magaliesberg, *Pole Evans*, 21083 ; Pietersburg, *Munnik*, 7091 ; Muden, *Röttcher*, 7734 ; Harrismith, *Petty*, 8831 ; Swinburne, *v. d. Byl ;* Wargundy Orchards, 27691 ; Bethlehem, *v. d. Merwe*, 27266 ; Parys, *Horn*, 14681 ; Bloemfontein, *Verwoerd ;* Elgin, *v. d. Byl* (Stell. 1081) ; Salisbury (Rh. 973) ; Rusapi and Inyanga, *Hopkins*.

Cytospora Sacchari Butl.

on **Saccharum officinarum** Linn., Mt. Edgecombe, *McMartin*.

Cytospora verrucula Sacc. & Berl.

? on **Acacia** sp., Kenilworth, *H. H. W. Pearson* (record at Kew).

Cytosporella Aloes du Pless.

du Plessis (1933 f) 207 ; Nel (1942) 101.

on **Aloe mitriformis** Mill., Stellenbosch, *du Plessis* (Stell. 806, 995 ; v. d. Byl 2723) Type.

Dothiopsis Stangeriae Verw. & du Pless.

Verwoerd & du Plessis (1933) 225 ; Nel (1942) 107.

on **Stangeria eriopus** Nash, Univ. Bot. Gard., Stellenbosch, *du Plessis* (Stell. 654 ; v. d. Byl 2669) Type.

Dothiorella congesta (Lév.) Sacc.

Saccardo Syll. Fung. III (1884) 241.

Sphaeropsis congesta Léveillé (1845) 62.

on **Podocarpus** sp., without locality, *Drège*.

Dothiorella mali Ell. & Everh.

Doidge & Bottomley (1931) 6.

see *Botryosphaeria Ribis* (Tode ex Fr.) Gross. & Dugg. var. *chromogena* Shear et. sl.

Dothiorella reniformis Vi. & Rav.

on **Vitis vinifera** Linn., Banhoek, *Buller* (Stell. 662).

Dothiorella Senecionis (Alm. & Cam.) Petrak

du Plessis (1933 f) 207.

on **Senecio** sp., Stellenbosch, du Plessis (Stell. 815).

Fusicoccum africanum v. d. Byl

van der Byl (1927) 226 ; Verwoerd (1929 b) 5 ; Doidge & Bottomley (1931) 6 ; Nel (1942) 102

on **Pyrus malus** Linn., Stellenbosch, *v. d. Byl 2436*, Type and *Verwoerd* (Stell. 317).

Fusicoccum viticolum Reddick

du Plessis (1938) 1, (1940) 16.

on **Vitis vinifera** Linn., Stellenbosch and Somerset West, *du Plessis ;* Constantia, *Fouché*, 30481.

Macrophoma Agapanthi Trav.

Doidge & Bottomley (1931) 4.

on **Agapanthus africanus** Hoffm., Pretoria, *Doidge*, 30657 ; Durban, *v. d. Byl*, 11027 ; Jutland, *Bottomley*, 9684.

Macrophoma Aloës Scalia

du Plessis (1933 f) 208 ; Nel (1942) 102.

on **Aloe affinis** Berg., Stellenbosch, *du Plessis* (Stell. 811).
Aloe mitriformis Mill., Stellenbosch, *du Plessis* (Stell. 805, v. d. Byl 2716, 2719).
Aloe striatula Haw., Stellenbosch, *du Plessis* (Stell. 817).
Aloe variegata Linn., Stellenbosch, *du Plessis* (Stell. 784 ; v. d. Byl 2683).
Aloe spp., Stellenbosch, *du Plessis* (Stell. 663, 809, 816 ; v. d. Byl 2684, 2717).

Macrophoma Artemisiae (Kalchbr. & Cooke) Berl. & Vogl.

Berlese & Voglino (1886 b) 195 ; Petrak & Sydow (1926) 119.
Phoma Artemisiae Kalchbrenner & Cooke (1880) 18 ; Sacc. Syll. Fung. III : 123.

on **Artemisia** sp., Somerset East, *MacOwan 1399*, Type.
Petrak & Sydow (l.c.) found a *Leptosphaeria* and a typical, well-developed *Phomopsis* sp., on the type collection in Berlin Museum.

Macrophoma cattleyicola P. Henn.

Verwoerd & du Plessis (1933) 226 ; Nel (1942) 102.

on **Scuticaria Hadwenii** Hort. ex Planch., Stellenbosch, *du Plessis* (Stell. 632 ; v. d. Byl 3693).
Fide Petrak & Sydow (1926) 120, the type specimen of *Macrophoma cattleyicola* P. Henn., is a *Colletotrichum*.

Macrophoma Clematidis Togn.

on **Clematis montana** Buch.-Ham., Wynberg, *Cloete*, 5667.

Macrophoma curvispora Peck.

on **Pyrus malus** Linn., twigs, Pietersburg, *v. d. Byl*, 28876.

Macrophoma Dryopteris Verw. & du Pless.

Verwoerd & du Plessis (1931) 291.

on **Dryopteris** sp., Stellenbosch, *du Plessis* (Stell. 475) Type.

Macrophoma Falconieri P. Henn.

Verwoerd & du Plessis (1932) 314.

on **Rhododendron** sp., Rosebank (Stell. 588).
Doubtful species, see Petrak & Sydow (1926) 122.

Macrophoma Oleae Berl. & Vogl.

on **Olea europaea** Linn., Elsenburg, *Dippenaar*.

Macrophoma sp.

Hopkins (1930) 536.

on **Hydrangea opuloides** Koch, Rhodesia, *Hopkins*.

Macrophomina limbalis Syd.

H. Sydow (1924 c) 430 ; van der Byl (1925 b) 196 ; Nel (1942) 102.
on **Sideroxylon inerme** Linn., Mossel Bay, *van der Byl 1333*, Type.

Macrophomina Phaseoli (Maubl.) Ashby

Wickens (1937) 690 ; Hopkins (1938 a) 116, (1939 a) 12, 13, 19, 21, 23, 26, (1943) 185.
as *Rhizoctonia bataticola* (Taubenh.) Butler, Hopkins (1929) 139.
on **Citrus Limonia** Osbeck, Umtali (Rh. 998) ; Mazoe, *Hopkins*.
Citrus sinensis Osbeck, Mazoe (Rh. 679, 680, 918) ; on decayed Valencia Late orange trees, Mazoe, *Bates 99*, 34025.
Eucalyptus spp., Maryland (Rh. 38) ; Umvukwes (Rh. 253) ; Zenega (Rh. 564).
Gossypium sp., Gatooma, *Hopkins*.
Glycine Max Merr., Salisbury (Rh. 1278, 2314).
Ipomoea batatas Lam., Bromley (Rh. 3052).
Musa paradisiaca L. var. **sapientum** Kuntze, Rhodesia, *Wickens*.

Phoma Agapanthi (Thuem.) Sacc.
on **Agapanthus** sp., Elsenburg, *Dippenaar* (Stell. 845).

Phoma Betae (Oud.) Frank

Verwoerd (1929 b) 8 ; Doidge & Bottomley (1931) 12 ; Verwoerd (1931 a) 301.
on **Beta vulgaris** Linn., Bloemfontein, *Verwoerd ;* Stellenbosch, *Verwoerd ;* Transvaal, *Doidge & Bottomley*.

Phoma citricarpa McAlp.

Doidge (1929 b) 324 ; Doidge & Bottomley (1931) 43 ; Doidge & van der Plank (1936) 22 ; Fawcett (1936) 524 ; U.S. Dept. Agric. (1942) 45, (1944) 31.
on **Citrus Limonia** Osbeck, fruit, Chase Valley, *English*, 32689 ; Verulam, *Wager*, 34563.
Citrus maxima Merr., fruit, intercepted in U.S.A. on material from South Africa.
Citrus nobilis Lour. var. **deliciosa** Sw., Chase Valley, *McFie*, 23632.
Citrus sinensis Osbeck, fruit and leaves, Town Bush Valley, 28540, *Wager*, 32700, *Carter*, 26084 ; Maritzburg, 33245 ; Chase Valley, *Wager*, 32755, 33190, *McFie*, 23633, 26089, *English*, 32690 ; Richmond & Umkomaas Valley, *Wager*.

Phoma cyclospora Sacc.

du Plessis (1933 f) 209 ; Nel (1942) 102.
on **Euphorbia** sp., Stellenbosch, *du Plessis* (Stell. 798 ; v. d. Byl 2705).

Phoma destructiva Plowr.

Doidge & Bottomley (1931) 63 ; Hopkins (1938 a) 116, (1949 a) 25.
on **Lycopersicum esculentum** Mill., on fruit, fairly common in the Union of South Africa, *Doidge & Bottomley ;* Salisbury, *Hopkins* (Rh. 1702, 3742) ; Jamieson, *Hopkins ;* Somerset East, *Tepper*, 2297.

Phoma Fici-caricae Verw. & du Pless.

Verwoerd & du Plessis (1932) 315.
on **Ficus carica** Linn., Stellenbosch (Stell. 599) Type.

Phoma flaccida McAlp.

Eyles (1926) 633.

on **Citrus sinensis** Osbeck, Mazoe, *Eyles.*
Vitis vinifera Linn., Sycamore, *S. W. du Toit*, 27298.

Phoma Gaillardiae du Pless.

du Plessis (1933 c) 3, 11 ; Nel (1942) 102.

on **Gaillardia pulchella** Foug., Stellenbosch, *du Plessis* (Stell. 786 ; v. d. Byl 2706) Type.

Phoma Geasteropsidis Hollós

Hollós (1907) 280 ; Sacc. Syll. Fung. XXII : 897.

on **Geasteropsis Conrathii** Hollós, Modderfontein, Johannesburg, *Conrath*, Type.

Phoma glumarum Ell. & Tracy

on **Oryza sativa** Linn., Umhlatuzi Valley, *Wager*, 33955.

Phoma insidiosa Tassi

Hopkins (1938 a) 116, (1939 a) 44.

on **Sorghum sudanense** Stapf, Salisbury, *Eyles 4995.*

Phoma Lantanae Verw. & du Pless.

Verwoerd & du Plessis (1933) 228.

on **Lantana Camara** Linn., Stellenbosch, *Verwoerd* (Stell. 629), Type.

Phoma lingam Desm.

Doidge & Bottomley (1931) 15.
Phoma oleracea Sacc., Doidge & Bottomley, l.c.
Phoma Brassicae Thuem., Hopkins (1938 a) 116, (1939) 8.

on **Brassica oleracea** Linn., Daspoort, *Wager*, 25343 ; Wonderfontein, *Long*, 28588 ; Cedara, *Wager ;* Polela Distr., *Gordon*, 6676 ; Rietfontein, *J. Dyer*, 18160 ; Salisbury (Rh. 744).
Brassica oleracea var. **acephala** DC., south-west Cape, *Dippenaar.*
Brassica oleracea var. **botrytis** Linn., Rietfontein, *J. Dyer*, 18160.

Phoma macrothecia Thuem.

von Thuemen (1876 b) 571 ; Sacc. Syll. Fung. III : 158.

on **Homeria Breyniana** (L.) Lewis var. **ochroleuca** Salisb., summit of the Boschberg, *MacOwan 1240*, Type (Thuem. Myc. Univ. 680 ; S.A.M. 35096) 21965, Kew.

Phoma Ornithogali Thuem.

von Thuemen (1878 a) 358 ; Sacc. Syll. Fung. III : 158.

on **Urginea altissima** Bkr., nr. Somerset East, MacOwan, Type (Thuem. Myc. Univ. 1783 ; Roum. Fung. Sel. Exsicc. 4749) 21964, Kew.

Phoma Passiflorae Penz. & Sacc.

on **Passiflora edulis** Sims, Stellenbosch, *Dippenaar* (Stell. 852) ; south-western Cape, *Louw.*
Passiflora quadrangularis Linn., south-western Cape, *Louw.*

Phoma persicae Sacc.

Verwoerd & du Plessis (1931) 292.
on **Prunus persica** Sieb. & Zucc., Wynberg, *v. d. Byl* (Stell. 424).

Phoma pinastrella Sacc.

on **Pinus halepensis** Mill., Belfast, *Pole Evans*, 9106.
Pinus pinaster Ait., Jessievale, *D.F.O.*, 7772 ; Belfast, *Pole Evans*, 9307.
Pinus radiata Don., Belfast, *Pole Evans*, 9306.

Phoma pomi Pass.

C. J. Hopkins (1925) 366 ; Doidge & Bottomley (1931) 7.
on **Pyrus malus** Linn., fruit, Transvaal, *J. C. Hopkins;* Buccleuch, *J. M. Sim*, 9784 ; Cedara, 14965 ; Vereeniging, *Brandmuller*, 20412 ; common in the Union of South Africa, especially in stored fruit.

Phoma Rostrupii Sacc.

Phoma sanguinolenta Rostr., Doidge & Bottomley (1931) 17.
on **Daucus carota** Linn. var. **sativa** DC., Cedara, *Fisher*, 1168.

Phoma Stapeliae Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 18 ; Sacc. Syll. Fung. III : 139.
? as *Cryptosporium fatale* Kalchbr. in Herb. Kew.
on **Stapelia gemmiflora** Mass. var. **hircosa** N.E. Br., Somerset East, *MacOwan 476, 1395*, Type, Kew sub *Phyllosticta*.

Phoma subcircinata Ell. & Everh.

Doidge & Bottomley (1931) 25, 39.
on **Phaseolus aureus** Roxb., Kaapsche Hoop.
Phaseolus vulgaris Linn., Zululand.

Phoma Tatulae Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 18 ; Sacc. Syll. Fung. III : 128.
on **Datura Tatula** Linn., on stems, Somerset East, *MacOwan 1407*, Type.

Phoma terrestris H. N. Hansen

Verwoerd & du Plessis (1932) 315 ; du Plessis (1933 b) 9 ; Nel (1942) 102.
isolated from **Allium Cepa** Linn., Stellenbosch, *du Plessis* (Stell. 604 ; v. d. Byl 2707).

Phoma tingens Cooke & Mass.

on **Delphinium cultorum** Voss., Pretoria, *Doidge*, 30792.

Phoma Welwitschiae Mass.

Massee (1910 b) 253 ; Sacc. Syll. Fung. XXII : 892.
on **Welwitschia Bainesii** (Hook. f.) Carr., near Welwitsch, *Worsdell*, Kew, type.

Phoma Zantedeschiae Dipp.

Dippenaar (1931 c) 284.
on **Zantedeschia aethiopica** Spreng., Elsenburg, *Dippenaar*, Type (Stell. 523, 917).

Phoma sp.

Bottomley (1932) 21.

on **Glycine Max** Merr., Cedara.

Phoma sp.

Moore (1926) 428.

on **Nicotiana tabacum** Linn., seedlings, *Moore.*

Phomopsis cinerescens (Sacc.) Trav.

? on **Ficus Carica** Linn., Coalbrook, *Grove*, 27570 ; Gloria, *de Jager*, 34152.

Phomopsis Citri Fawc.

Doidge & Bottomley (1931) 44, 45 ; Hopkins (1932) 505 ; Doidge & van der Plank (1936) 162 ; Turner (1936) 258 ; Bates (1937 b) 195 ; Cardoso (1935) 185, (1937) 156, (1938) 74, (1939) 44.

Diaporthe Citri (Fawc.) Wolf, Hopkins (1938 a) 101, (1939 a) 13, (1943) 182 ; Cardoso (1945) 151, 152.

isolated from

Citrus aurantifolia Sw., Verulam, *Wager*, 32509.

Citrus Limonia Osbeck, Acornhoek, *Willis*, 26410 ; Buffelshoek, *Turner ;* causing melanose on fruit, Verulam, *Wager ;* Chase Valley, *Wager ;* Malagazi, *Wager ;* Umhlatuzi Valley, *Wager ;* causing shell bark, Verulam, *Turner*, *Wager ;* from leaves, Verulam, *Wager.*

Citrus maxima Merr., fruit, Mazoe, *Bates ;* Umtentweni, *Wager ;* Lourenço Marques, *Oliveira.*

Citrus sinensis Osbeck, rotting fruits from White River, Zebediela, Muden, Sundays River, Groot Drakenstein, *Doidge ;* Verulam, 24954 ; Rustenburg, *MacDonald*, 24955 ; Mazoe, *Bates*, 34016 ; Sul do Save, *Cardoso ;* Manhica, *Tavira ;* Lourenço Marques, *Oliveira ;* Xinavane, *Cardoso ;* causing melanose, Chase Valley, *English*, 32688, *Wager*, 32460, 33189.

Phomopsis sp., **Ph. Citri** affinis

Hopkins (1939 a) 35.

isolated from **Delonix regia** Raf., Salisbury, *Hopkins ;* Mazoe, *Bates 5025*, 34017.

Phomopsis Daturae (Roll. & Fautr.) Sacc.

Verwoerd & du Plessis (1933) 228 ; Nel (1942) 102.

on **Datura Stramonium** Linn., Stellenbosch, *Verwoerd* (Stell. 617 ; v. d. Byl 2708).

Phomopsis juniperovora Hahn.

Hahn (1930) 53 ; Doidge & Bottomley (1931) 22.

as *Phoma* sp., Bottomley (1918) 613.

on **Cryptomeria japonica** D. Con., Estcourt, *McClean*, 21579.

Cupressus arizonica Greene, Groenkloof, *D.F.O.*, 20408 ; Cedara, *D.F.O.*, 26339, 26340 ; Belfast, *Bottomley.*

Cupressus macrocarpa Hartw., Pretoria, *D.F.O.*, 20410.

Cupressus torulosa Don., Belfast, *Bottomley.*

Juniperus procera Hochst., Xumeni Plantation, *D.F.O.*, 22438.

Juniperus virginiana Linn., Groenkloof, *D.F.O.*, 20411.

Phomopsis oxalina (Ell. & Everh.) Syd.
on **Oxalis** sp., Schagen, *Liebenberg*, 26358.

Phomopsis Papayae Frag. & Ciferri
on **Carica Papaya** Linn., Buffelspoort, *Bottomley*, 25948.

Phomopsis perniciosa Grove
Diaporthe perniciosa Marchal (*Phomopsis* stage) Hopkins (1938 a) 101, (1939 a) 38.
? as *Phomopsis Mali* Roberts, Hopkins & Bacon (1938) 455.
on **Pyrus malus** Linn., Salisbury, (Rh. 961, 973) ; Rhodesia, general, *Hopkins*.

Phomopsis Phaseoli Grove
? as *Phomopsis* sp. probably *Diaporthe phaseolorum* (Cooke & Ellis) Sacc., Hopkins (1939 a) 25.
? on **Lycopersicum esculentum** Mill., fruit, Mazoe, *Hopkins*.

Phomopsis samarorum (Desm.) v. Höhn.
on **Fraxinus angustifolia** Vahl, Butterworth, *D.F.O.*, 33998.

Phomopsis sp.
Cryptosporella umbrina (Jenkins) Wehm., Doidge (1941 a) 66
on **Rosa** sp., Northlands, Johannesburg, *Paul*, 30444 ; Kokstad, *Ward*, 30445 ; Fort Beaufort, *Wager*.

Phomopsis sp.
isolated from **Passiflora edulis** Sims, from raised scabs on fruit, Mazoe, *Bates 358*, *359*, *366*, 34018, 34019, 34020.

Phyllosticta Aloës Kalchbr.
Kalchbrenner & Cooke (1880) 20 ; Sacc. Syll. Fung. III : 60.
on **Aloe latifolia** Haw., Somerset East, *MacOwan 1023*, Type.

Phyllosticta Antirrhini Syd.
Hopkins (1938 a) 116, (1939 a) 5.
on **Antirrhinum majus** Linn., Banket (Rh. 2830) ; Delmas, *Schoeman*.

Phyllosticta Asplenii Jaap
Hopkins (1938 a) 116.
on **Asplenium nidus** Linn., Bulawayo, (Rh. 3020 a).

Phyllosticta auriculata Kalchbr. & Cooke
Kalchbrerner (1880) 20 ; Sacc. Syll. Fung. III : 29.
on **Buddleia auriculata** Benth., Somerset East, *MacOwan*, Type, Kew ex coll. Thuem.

Phyllosticta Bauhiniae-reticulatae P. Henn.
P. Hennings (1903) 167 ; Sacc. Syll. Fung. XVIII : 227.
on **Bauhinia Thonningii** Schum., between Makele and Goudkopje, *Baum 933*, Type, Kew.

Phyllosticta Begoniae Brun.
Hopkins (1938 a) 117.
on **Begonia** sp., Bulawayo (Rh. 3016).

Phyllosticta Betae Oud.
Nel (1942) 103.
on **Beta vulgaris** Linn., Hopefield, *v. d. Byl 1275*.

Phyllosticta Brassicae West.
Dippenaar (1931 c) 285 ; Nel (1942) 103.
on **Brassica oleracea** Linn., Stellenbosch, *du Plessis* (Stell. 520 ; v. d. Byl 2612).

Phyllosticta Canavaliae v. d. Byl
van der Byl (1929 a) 318 ; Nel (1942) 103.
on **Canavalia obtusifolia** DC., Durban, *Forbes* (v. d. Byl 2529) Type.

Phyllosticta Caricae-papayae Allesch.
van der Byl (1920 a) 288.
on **Carica Papaya** Linn., Winkle Spruit, *v. d. Byl*, 11691.

Phyllosticta Carissae Kalchbr. & Cooke
Kalchbrenner & Cooke (1880) 20 ; Sacc. Syll. Fung. III : 36.
on **Carissa bispinosa** (L.) Desf., Somerset East, *MacOwan 1355*, Type (S.A.M. 35085 as MacOwan 1354) Kew.

Phyllosticta Cepae Verw. & du Pless.
Verwoerd & du Plessis (1932) 315.
on **Allium Cepa** Linn., Stellenbosch, *du Plessis* (Stell. 587) Type.

Phyllosticta Cephalariae Wint.
Winter (1885 b) 32 ; Sacc. Syll. Fung. X : 129.
on **Cephalaria attenuata** R. & S., Boschberg, *MacOwan*, Type (Rabenh. Fung. Eur. 3984) 4324, 21968, Kew.
Cephalaria ustulata R. & S., Rosslyn, *Wager*, 23152.

Phyllosticta Colae Verw. & du Pless.
Verwoerd & du Plessis (1933) 229 ; Nel (1942) 103.
on **Cola acuminata** Schott. & Endl., Univ. Bot. Gard., Stellenbosch, *du Plessis*, Type, (Stell. 648 ; v. d. Byl 2661).

Phyllosticta degenerans Syd.
H. & P. Sydow (1912 a) 42 ; Sacc. Syll. Fung. XXV : 24.
on **Pachycarpus** sp., Dundee, *Doidge*, 1056, Type.

Phyllosticta Delphinii Clem.
Hopkins (1938 a) 117, (1939 a) 17.
on **Delphinium cultorum** Voss, Salisbury (Rh. 2016, 2020).

Phyllosticta Dianthi West.
Hopkins (1938 a) 117, (1939 a) 17 ; Doidge & Bottomley (1931) 17.
on **Dianthus caryophyllus** Linn., Pretoria, *Wager*, 21246 ; Salisbury (Rh. 1815, 1998).

Phyllosticta Dioscoreae Cooke
on **Dioscorea malifolia** Bkr., Schagen, *Liebenberg*, 26313.

Phyllosticta Doxanthae Verw. & du Pless.
Verwoerd & du Plessis (1932) 31€.
on **Bignonia capreolata** Linn., Stellenbosch (Stell. 192) Type.

Phyllosticta Dryopteris Verw. & du Pless.
Verwoerd & du Plessis (1931) 292.
on **Dryopteris** sp., Stellenbosch, *du Plessis* (Stell. 477) Type.

Phyllosticta Eriobotryae Thuem.
on **Eriobotrya japonica** Lindl., Stellenbosch, *Dippenaar*.

Phyllosticta ficicola Pat.
Verwoerd & Dippenaar (1931) 292.
on **Ficus carica** Linn., Stellenbosch, *du Plessis* (Stell. 473).

Phyllosticta gossypina Ell. & Mart.
Hopkins (1938 a) 117, (1939 a) 22.
sub *Phyllosticta*? *Malkoffii* Bubak, Eyles (1926) 637 ; Hopkins (1930) 523.
on **Gossypium** sp., Natal, *Fuller*, 1288 ; Glendale, Bindura, Darwendale, *Hopkins ;* general in Rhodesia, *Eyles*, *Hopkins*.

Phyllosticta helvola (Berk. & Curt.) Tassi
on **Annona senegalensis** Pers., Tzaneen, *Sampson*, 5582.

Phyllosticta hesperidearum Penz.
Eyles (1926) 636.
on **Citrus sinensis** Osbeck, Mazoe, *Eyles*.

Phyllosticta hibiscina Ell. & Everh.
Hopkins (1939 a) 22.
on **Hibiscus esculentus** Linn., Banket, *Hopkins*.

Phyllosticta idaecola Cooke
Verwoerd (1929 b) 14 ; Doidge & Bottomley (1931) 29 ; Nel (1942) 103.
on **Hibiscus rosa-sinensis** Linn., Stellenbosch, *Verwoerd* (Stell. 103 ; v. d. Byl 1184), *Dippe naar* (Stell. 981).

Phyllosticta latospora Verw. & du Pless.
Verwoerd & du Plessis (1933) 230 ; Nel (1942) 103.
on **Terminalia catappa** Linn., Univ. Bot. Gard., Stellenbosch, *du Plessis*, Type (Stell. 652 ; v. d. Byl 2662).

Phyllosticta Magnoliae Sacc.

Verwoerd & du Plessis (1931) 293 ; Nel (1942) 103.

on **Magnolia grandiflora** Linn., Stellenbosch, *Verwoerd* (Stell. 425) ; Salisbury, *v. d. Byl 2743.*

Phyllosticta mali Prill. & Delacr.

on **Pyrus malus** Linn., Zwartkopjes, 734.

Phyllosticta Medicaginis (Fuck.) Sacc.

on **Medicago sativa** Linn., Jongensklip, *Dippenaar.*

Phyllosticta Nemophilae Dippenaar

Dippenaar (1931 c) 284.

on **Nemophila insignis** Benth., Stellenbosch, *Verwoerd* (Stell. 447).
Nemophila sp., Stellenbosch, *Dippenaar 33*, Type (Stell. 944).

Phyllosticta Nepenthecearum Tassi

Verwoerd & du Plessis (1933) 230 ; Nel (1942) 103.

on **Nepenthes Goettingiana,** Univ. Bot. Gard., Stellenbosch (Stell. 646 ; v. d. Byl 2663).
Nepenthes gracilis Korthals, Stellenbosch (Stell. 633).
Nepenthes Outramiana Williams, Stellenbosch (Stell. 638).

Phyllosticta Nicotianae Ell. & Everh.

Eyles (1924 b) 747, (1926) 649 ; Hopkins (1931 b) 55, 81, (1938 a) 117, (1939 a) 28 ; Nel (1942) 103.

on **Nicotiana Tabacum** Linn., Salisbury, *Eyles* (v. d. Byl 1325) ; Marandellas, Norton, Macheke, Lydiate, Banket, Concession, Mazoe, Inyazura, Lomagundi and Salisbury. *Hopkins, Eyles.*

Phyllosticta Odinae P. Henn. & Evans

Hennings (1908) 273 ; Sacc. Syll. Fung. XXII : 826.

on **Lannea discolor** (Sond.) Engl., Waterberg, *Pole Evans*, 44, Type; Barberton, *Burtt Davy*, 376, Kew.

Phyllosticta orbicularis Ell. & Everh.

? on **Cucurbita Pepo** Linn., Pretoria Distr., *Malan*, 33928.

Phyllosticta Owaniana Wint.

Winter (1885 b) 31 ; Sacc. Syll. Fung. X : 120.

on **Brabejum stellatifolium** Linn., foot of Table Mt., *MacOwan*, Kew ex Herb. Winter.

Phyllosticta Perseae Ell. & Mart.

Doidge & Bottomley (1931) 10

on **Persea americana** Mill., Irene, *Doidge*, 2273.

Phyllosticta Persicae Sacc.

Cardoso (1945) 153.

on **Prunus persica** Sieb. & Zucc., Lourenço Marques, *Guimarãis.*

Phyllosticta phaseolina Sacc.

Eyles (1926) 631 ; Hopkins (1930) 415 ; Doidge & Bottomley (1931) 25.
on **Mucuna pruriens** DC., Umvukwes, Salisbury, *Eyles*.
Phaseolus limensis Macf., Umhlanga Rocks, *Wager*.
Phaseolus vulgaris Linn., Pretoria Distr., *Doidge & Bottomley*.

Phyllosticta prunicola Sacc.

Pole Evans (1906 a) 133 ; Doidge & Bottomley (1931) 9.
on **Prunus Armeniaca** Linn., Basutoland, *Doidge & Bottomley*, Potchefstroom and Pretoria, *Pole Evans*.
Prunus persica Sieb. & Zucc., Moçambique, *Cardoso*.

Phyllosticta Psidii Tassi

Verwoerd & du Plessis (1931) 292.
on **Psidium Guajava** Linn., Stellenbosch, *Verwoerd* (Stell. 477) ; Paarl, *du Plessis* (Stell. 552).

Phyllosticta pyrina Sacc.

Hopkins (1938 a) 117.
on **Pyrus malus** Linn., Umtali, *Eyles 4248*.

Phyllosticta rhoina Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 20 ; Sacc. Syll. Fung. III : 17.
on **Rhus viminalis** Vahl, Somerset East, *MacOwan 1406*, Type, 20816, Kew.

Phyllosticta Richardiae Halst.

van der Byl (1922 d) 287 ; Nel (1942) 103.
on **Zantedeschia aethiopica** Spreng., Stellenbosch, *v. d. Byl 210*.

Phyllosticta Rumicis Kalchbr.

? Nomen nudum in Herb. MacOwanianum.
on **Rumex conglomeratus** Murr., nr. Somerset East, *MacOwan 1180*, 21811.

Phyllosticta solitaria Ell. & Everh.
on **Pyrus malus** Linn., Inyanga, *Hopkins* (Rh. 4357).

Phyllosticta sorghina Sacc.

P. Hennings (1903) 167.
on **Sorghum vulgare** Pers., Kakele R., between Kassinga and Goudkopje, *Baum*.

Phyllosticta Stanhopeae Allesch.

Verwoerd & du Plessis (1933) 230 ; Nel (1942) 103.
on **Stanhopea oculata** Lindl., Univ. Bot. Gard., Stellenbosch, *du Plessis*, (Stell. 639 : v. d. Byl 2664).

Phyllosticta straminella Bres.

Hopkins (1938 a) 117, (1939 a) 40.
as *Phoma straminella*, Eyles (1926) 646.
on **Rheum Rhaponticum** Linn., Pretoria, *Bottomley*, 17025 ; Salisbury (Rh. 828, 2057) ; Theydon (Rh. 3035) ; Gwelo, *Eyles ;* Lyndhurst, Johannesburg, *Garnett* 33920.

Phyllosticta Tabaci Pass.

Hopkins (1931 b) 56, 81, (1938 a) 117, (1939 a) 28.

on **Nicotiana tabacum** Linn., Rhodesia, general.

Phyllosticta Terminaliae P. Henn.

P. Hennings (1903) 167.

on **Terminalia Baumii** Engl. & Gilg., between Kutue and Sobi, *Baum 764*, Type, Kew.

Phyllosticta Theobromae Alm. & Cam.

Verwoerd & du Plessis (1933) 231 ; Nel (1942) 103.

on **Theobroma Cacao** Linn., Univ. Bot. Gard., Stellenbosch, *du Plessis*, (Stell. 613 ; v. d. Byl 2665).

Phyllosticta Violae Desm.

van der Byl (1922 d) 287 ; Doidge & Bottomley (1931) 65 ; Verwoerd (1931 a) 301 ; Nel (1942) 103.

on **Viola odorata** Linn., Johannesburg, *Daly*, 10120 ; Salisbury (Rh. 529) ; Bloemfontein, *Verwoerd ;* Stellenbosch, *v. d. Byl ;* Elsenburg, *v. d. Byl 89.*

Phyllosticta sp.

Hopkins (1932) 464.

on **Acroceras macrum** Stapf, Rhodesia, *Hopkins.*

Phyllosticta sp.

Eyles (1926) 638 ; Hopkins (1930) 524.

on **Annona reticulata** Linn., Southern Rhodesia, *Eyles.*

Phyllosticta sp.

Eyles (1926) 644 ; Hopkins (1930) 526.

on **Arachis hypogaea** Linn., Enterprise, *Eyles.*

Phyllosticta sp.

Hopkins (1930) 418.

on **Citrus sinensis** Osbeck, Southern Rhodesia, *Hopkins.*

Phyllosticta sp.

Verwoerd (1929 b) 5.

on **Cyclamen europaeum** Linn., Bloemfontein, *Verwoerd ;* Stellenbosch, *Verwoerd.*

Phyllosticta sp.

Hopkins (1930) 526.

on **Hibiscus** sp., Southern Rhodesia, *Hopkins.*

Phyllosticta sp.

van der Byl (1925 b) 196.

on **Olea foveolata** E. Mey., Knysna, *v. d. Byl.*

Phyllosticta sp.

Hopkins (1930) 416.

on **Physalis peruviana** Linn., Southern Rhodesia, *Hopkins.*

Phyllostictina concentrica (Sacc.) v. Höhn. var. **lusitanica** Alm.
Verwoerd & du Plessis (1931) 293.
on **Hedera Helix** Linn., Stellenbosch, *Verwoerd* (Stell. 254).

Pyrenochaeta Vanillae Verw. & du Plessis
Verwoerd & du Plessis (1933) 231 ; Nel (1942) 104.
on **Vanilla planifolia** Andr., Univ. Bot. Gard., Stellenbosch, *du Plessis*, Type (Stell. 635 ; v. d. Byl 2697).

PHAEOSPORAE.

Chaetomella Artemisiae Cooke
Cooke (1882 a) 123 ; Sacc. Syll. Fung. III : 322.
on **Artemisia afra** Jacq., Inanda, *Medley Wood 572*, Type, 10173, Kew.

Chaetomella Tritici Ten. & Dan.
on **Avena sativa** Linn., roots, Stellenbosch, *Gorter*, 33354.

Cincinnobella sp.
on **Englerula Macarangae** P. Henn. on *Macaranga capensis*, Eshowe, *Laughton*, 33112.

Coniothyrina Agaves (Dur. & Mont.) Petr. & Syd.
du Plessis (1933 f) 206 ; Nel (1942) 101.
on **Agave americana** Linn., Jongensklip, Caledon, *du Plessis* (Stell. 619 ; v. d. Byl 2682).

Coniothyrium Fuckelii Sacc.
Hopkins (1930) 649 ; Doidge & Bottomley (1931) 55 ; Cardoso (1937) 156, (1938) 75, (1939) 45, (1945) 162.
on **Rosa** sp., Stutterheim, *Hodgson*, 23697 ; Aliwal North, *Bekker*, 15502 ; Bergville, *Voortman*, 25460 ; Modderbee, *Turner*, 25459 ; Heidelberg, *Weakley*, 25480 ; Tarlton, *Walshe*, 26636 ; Springs, *Hogg*, 26635 ; Benoni, *v. d. Berg*, 30446 ; Bethal, *Bean*, 15501 ; Bloemfontein, *Tidmarsh*, 23345, *Bottomley*, 25926 ; Maseru, *Wacher*, 25933 ; Maraisberg, *Haywood*, 33767 ; Southern Rhodesia, *Hopkins ;* Sul do Save, *Cardoso ;* Lourenço Marques, *Frias*.
on **Pyrus malus** Linn., Bethlehem, *v. d. Merwe*, 27268.

Coniothyrium insigne Syd.
H. Sydow (1924 c) 431 ; van der Byl (1925 b) 196 ; Petrak & Sydow (1927) 384 ; J. Phillips (1931) 160 ; Nel (1942) 101.
on **Ocotea bullata** E. Mey., Knysna, *v. d. Byl 1380*, Type.

Coniothyrium occultum Syd.
H. Sydow (1937) 281.
on **Phyllachora Doidgeae** Syd. on *Cymbopogon marginatus* (Steud.) Stapf ; Donkerpoort, *Doidge & Bottomley*, 29744.
Phyllachora heterospora P. Henn., on *Panicum maximum* Jacq., Schagen, *Liebenberg*, 26096.

Coniothyrium palmicolum (Fr. pr. p.) Starb.
Cardoso (1945) 159.
on **Cocos nucifera** Linn., on leaves, Zambesi region (det. S. da Camara).

Coniothyrium rafniicola (P. Henn.) Petrak

Petrak & Sydow (1927) 396.

Sphaeropsis rafniicola P. Hennings (1898) 295 ; Sacc. Syll. Fung. XVI : 906.

on **Rafnia** sp., Piquetberg, *Schlechter*.

Cytoplea Adeniae du Plessis

du Plessis (1933 f) 206 ; Nel (1942) 101.

on **Adenia** sp., Stellenbosch, *du Plessis*, Type (Stell. 799 ; v. d. Byl 2668).

Epistigme nidulans Syd.

H. Sydow (1924 c) 432 ; Petrak & Sydow (1927) 321 ; Nel (1942) 102.

on **Rhus viminalis** Vahl, Genadendal, *Verwoerd*, Type (Stell. 112 ; v. d. Byl 1255).

Haplosporella hesperidica Speg.

on **Citrus sinensis** Osbeck, Durban, *Doidge*, 27292, *Wayne*, 17019.

Lasmeniella globulifera (Rabenh.) Petrak & Syd.

Lasmeniella Pterocarpi Petrak (1929) 395.

associated with

Endodothella Deightonii Syd., on *Albizzia gummifera* (Gmel.) C. A. Sm., Verulam, *Pole Evans*, 6829 ; Phoenix, *Wager*, 33097.

Phyllachora Halsei Doidge on *Acacia robusta* Burch., Umzinto, *McClean*, 30116 ; on *Acacia Benthami* Roxb., Scottburgh, *Halse*, 30380 ; on *Acacia Gerrardi* Benth., Nkwaleni Valley, *McClean*, 33089.

Phyllachora Pterocarpi Syd. on *Pterocarpus rotundifolius* (Sond.) Druce, Schagen, *Liebenberg*, 26014 ; Nelspruit, *Doidge*, 32402.

Oothecium Macarangae Petr.

(Conidial form of *Englerula Macarangae* P. Henn.)

on **Macaranga capensis** Sim, Eshowe, *Laughton*, 34112.

Oothecium stylosporum (Cooke) Doidge

Doidge (1942) 327.

? *Asterina stylospora* Cooke (1882 a) 129 ; Sacc. Syll. Fung. IX : 393.

Oothecium consimile Syd., H. Sydow (1930) 443.

on **Trema guineensis** (Schum.) Ficalho, Inanda, *Medley Wood 564*, Type, 793, 9499, 10191, Kew ; Verulam, *Pole Evans*, 6801 ; Krantzkloof, *Doidge*, 9101 ; Eshowe, *Laughton*, 33516.

Sphaeropsis corticalis (Kalchbr. & Cooke) Sacc.

Sacc. Syll. Fung. (1884) 302.

Macrodiplodia corticale Kalchbrenner & Cooke (1880) 18 ; Medley Wood (1898) 18.

on bark, Somerset East, *MacOwan 522 ;* Natal, *Medley Wood 138*, Type, Kew ex Herb. Kalchbr.

Sphaeropsis malorum Peck

Pole Evans (1908 b) ; Verwoerd (1929 b) 13 ; Doidge & Bottomley (1931) 28 ; Verwoerd & Dippenaar (1930 b) 1–16 ; du Plessis (1936) 16 ; Eyles (1926) 630.

Haplosporella mali (West.) Petrak & Sydow, Hopkins & Bacon (1938) 453.

see also *Physalospora obtusa* (Schw.) Cooke

on **Cydonia oblonga** Mill., fairly common in the Cape Province.
Pyrus communis Linn., Inyanga (Rh. 3751) ; Umtali (Rh. 3431) ; Stellenbosch, *Dippenaar* (Stell. 986) ; Berlin, 26581.
Pyrus malus Linn., Johannesburg, *Pole Evans*, 14108, *Rocher*, 17792, *Ordish*, 25982 ; Mountain View, 1875 ; Baviaans Kloof, *Pole Evans*, 2444 ; Pyramids, *Leith*, 26338 ; Henley-on-Klip, *Hendey*, 26643 ; White River, *Talbot*, 2380 ; Godwan River, *Wager*, 25996 ; Pietersburg, *Munnik*, 7085 ; Lichtenburg, *du Preez*, 30130 ; Aliwal North, *Kinlock*, 18051 ; Joubertina, *Bottomley*, 33268 ; Krakeel, *Pienaar*, 2380 ; Groot Drakenstein, *Pickstone*, 9172 ; Elsenburg, *Tribolet*, 9786 ; Simondium, *Baker*, 12519 ; Montagu, George, Elgin, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell. 319) ; Grahamstown, *Wallace*, 17281 ; Kruis Rivier, *Rens*, 24911 ; Maritzburg, *J. M. Sim*, 10078 ; Town Bush Valley, *Dungan*, 20670 ; Buccleuch, *J. M. Sim*, 9784 b, 10046 ; Muden, Röttcher, 2199, 2374 ; Nottingham Road, *Greene* (v. d. Byl 648) 31875 ; Cashel (Rh. 3437) ; M'soneddi (Rh. 3485, 3530, 3532) ; Salisbury (Rh. 3626).
Vitis vinifera Linn., Worcester, *Verwoerd ;* Constantia, *du Plessis* (Stell. 1047) ; Breede Rivier, *Verwoerd* (Stell. 384) ; Stellenbosch, *Verwoerd* (Stell. 393).

Sphaeropsis Mappae Cooke
Cooke (1882 a) 123.
on **Macaranga capensis** Benth., Inanda, *Medley Wood 619*, Type, 804, 10657, Kew.

Sphaeropsis sp.
Doidge & Bottomley (1931) 29.
on **Psidium Guajava** Linn., on fruit, Transvaal.

HYALODIDYMAE.

Ascochyta Alkekengi Massal.
on **Physalis peruviana** Linn., Stellenbosch, *Dippenaar* (Stell. 839, 850) ; Paarl, *du Plessis* (Stell. 820).

Accochyta atropunctata Wint.
Winter (1885 b) 32 ; Sacc. Syll. Fung. X : 299.
on **Osteospermum moniliferum** Linn., Table Mt., *MacOwan*.

Ascochyta Calpurniae Wint.
Winter (1885 b) 32 ; Sacc. Syll. Fung. X : 296.
on **Calpurnia sylvatica** E. Mey., Boschberg, *MacOwan*, Type.

Ascochyta Caricae Pat.
Hopkins (1943) 182.
Phoma caricina Hopkins (1938 c) 128, (1938 a) 115, (1939 a) 9.
on **Carica Papaya** Linn., Salisbury (Rh. 3544) 4465 ; Hartley, *Hopkins* (Rh. 4961) ; Shamva, Glendale, *Hopkins ;* Zeerust, *Wickert*, 34326.

Ascochyta Cherimoliae Thuem.
Hopkins (1938 a) 116.
on **Annona reticulata** Linn., Salisbury, *Eyles 6698*.

Ascochyta citricola McAlp.
Eyles (1926) 633 ; Hopkins (1930) 417.
on **Citrus sinensis** Osbeck, Mazoe, *Eyles ;* Southern Rhodesia, *Hopkins*.

Ascochyta Kentiae Maubl.

Verwoerd & du Plessis (1933) 222 ; Nel (1942) 101.

on **Roystonia regia** O. F. Cook, Univ. Bot. Gard., Stellenbosch, *du Plessis*, (Stell. 637 ; v. d. Byl 2675).

Ascochyta Nicotianae Pass.

on **Nicotiana Tabacum** Linn., seedlings, Wellington and Elsenburg, *Dippenaar*, (Stell. 1005, 1029).

Ascochyta Papaveris Oud.

on **Papaver nudicaule** Linn., on leaf and flower, South-western Cape, *Dippenaar*.

Ascochyta parasitica Fautr.

Hopkins (1938 a) 116, (1939 a) 4.

on **Althaea rosea** Cav., Concession (Rh. 1930).

Ascochyta Pisi Lib.

Van der Byl (1922 d) 287 ; Verwoerd (1929 b) 16, 20, (1931 a) 300; Doidge & Bottomley (1931) 47 ; Hopkins (1930) 528, (1938 a) 116, (1939 a) 21, 32, (1943) 188 ; Dippenaar (1931) 9 ; Nel (1942) 101.

on **Pisum sativum** Linn., Stellenbosch, *Buller*, 8830, *v. d. Byl 30*, *Verwoerd* (Stell. 360), *Dippenaar* (Stell. 596, 833, 1006), *Slabbert* (Stell. 895) ; Umhlanga Rocks, Cavendish, Phoenix, *Wager ;* Kentani, *Pegler 2443*, 10991 *;* Duivelskloof, *Wager*, 25448 *:* Pretoria, *Doidge ;* Bloemfontein, *Verwoerd ;* Southern Rhodesia, *Hopkins*.

Glycine Max Merr., Salisbury (Rh. 2334).

?on**Lupinus angustifolius** Linn., Stellenbosch, *Dippenaar* (Stell. 979).

on **Phaseolus aureus** Roxb., Natal.

Phaseolus limensis Macf., Cedara, v. d. Byl *1111*, *1115 :* Salisbury (Rh. 2341).

Vigna unguiculata (L.) Walp., Cedara, *Staples* (Stell. 32) 15429 ; Potchefstroom, *Saunders* 27575.

Corrollospora maritima Werd.

Nel (1942) 101.

on wood from an old wreck, washed up on beach, Bloubergstrand, *v. d. Byl 2628*.

Darluca filum (Biv.) Cast.

Cooke (1879 b) 70, (1880) 14 ; Kalchbrenner (1882 a) 147 : Sacc. Syll. Fung. III : 410 ; P. Hennings (1903) 168 ; Hopkins (1938 a) 116, (1939 a) 51.

Darluca vagans Cast., von Thuemen (1878 a) 358.

see also *Eudarluca australis* Speg.

on **Aecidium Oxalidis** Thuem. on *Oxalis purpurata* Jacq., Somerset East, *MacOwan 1042*.

?on**Aecidium Vignae** Cooke on *Sphenostylis marginata* E. Mey., Inanda, *Medley Wood 115* Kew. (almost certainly an immature stage of *Parodiella perisporioides*, fide Kew).

on **Melampsora Ricini** Pass. on *Ricinus communis* Linn., Skinner's Court, *Pole Evans*, 384.

Puccinia erythraeënsis Pazschke on *Hyparrhenia filipendula* Stapf, Southern Rhodesia, *Hopkins*.

Puccinia graminis Pers. on *Dactylis glomerata* L., Skinner's Court, 392.

Puccinia oahuensis Ell. & Everh. on *Digitaria Pentzii* Stent, Salisbury (Rh. 2085).

Puccinia Pruni-spinosae Pers., on *Prunus salicina* Lindl., Kokstad, *Paine*, 32503

Pucciniosira Dissotidis Wakef., on *Dissotis longicauda* Cogn., Kampuluvu, *Baum 800*.

Uredo sp. on *Pycreus polystachyus* Beauv., Knysna, *Bottomley*, 32424.

Uromyces appendiculatus (Pers.) Link on *Phaseolus vulgaris* Linn., Natal, *Medley Wood 89*.

Uromyces caryophyllinus (Schrank.) Wint. on *Dianthus caryophyllus* Linn., Rustenburg, *Stroth*, 25927.

Uromyces leptodermus Syd. on *Brachiaria dictyoneura* Stapf, Salisbury, (Rh. 3399).

Uromyces Ipomoeae (Thuem.) Berk. on *Ipomoea oenotheroides* (L.f.) Rafin, Klein Vis Rivier, *MacOwan 1226*.

Common on Uredineae in wet seasons, especially in the uredo-sori.

PHAEODIDYMAE.

Botryodiplodia Oncidii (P. Henn.) Petrak & Syd.

Verwoerd & du Plessis (1933) 223.

on **Oncidium concolor** Hook., Stellenbosch, *du Plessis* (Stell. 612).

Botryodiplodia Palmarum (Cooke) Petrak & Syd.

Petrak & Sydow (1926) 164.

Macrophoma Palmarum (Cooke) Berl. & Vogl., H. & P. Sydow (1909) 546 ; Cardoso (1945) 159.

on **Acanthophoenix rubra** H. Wendl., Durban, *v. d. Byl 496*, 31779.

Cocos nucifera Linn., Maracuene, *Howard*, 488 ; Zambesi Region (det. S. da Camara) ; Inhaca Is., *Mogg*, 34153.

Botryodiplodia Theobromae Pat.

Hopkins (1930) 650, (1938 a) 116, (1939 a) 4, 6, 12, 13, 16, 34 ; Cardoso (1945) 160.

on **Aleurites Fordii** Hemsl., Salisbury (Rh. 2541).

Araucaria braziliana A. Rich., Salisbury (Rh. 1694).

Citrus maxima Merr., Macequece (Rh. 899, 991, 992, 993).

Citrus sinensis Osbeck, Rhodesia, general, *Hopkins*.

Cupressus arizonica Greene, M'Sasa (Rh. 1546).

Cupressus macrocarpa Hartw., Salisbury (Rh. 2316).

Dillenia indica Linn., Lourenço Marques, *Tinoco*.

Eriobotrya japonica Lindl., Capetown, *Davies*, 18181.

Pittosporum undulatum Vent., Salisbury (Rh. 636, 1261).

Thea sinensis Linn., Rhodesia, *Hopkins*.

Diplodia Aurantii Catt.

Doidge & van der Plank (1936) 18 : Hopkins (1938 a) 116, (1939 a) 11, 13.

on **Citrus maxima** Merr., on twigs, Umtali (Rh. 1081).

Citrus sinensis Osbeck, on twigs or isolated from fruit, Umtali (Rh. 996) ; Pretoria, *Doidge*.

Diplodia clematidea Sacc.

Sacc. Syll. Fung. III (1884) 368.

Diplodia Clematidis Kalchbrenner & Cooke (1880) 19, not Saccardo.

on **Clematis brachiata** Thunb., Somerset East, *MacOwan 1358*, Kew.

Diplodia herbarum (Corda) Lév.

Dippenaar (1931 c) 287.

on **Dianthus caryophyllus** Linn., Stikland, *Dippenaar*.

Diplodia lichenopsis Cooke & Mass.

Verwoerd (1929 b) 23 ; Doidge & Bottomley (1931) 52 ; Nel (1942) 101.

on **Acacia saligna** Wendl., Somerset Strand, *Verwoerd* (Stell. 88 ; v. d. Byl 1168) ; Stellenbosch, *du Plessis* (Stell. 983).

Diplodia Monsterae Verw. & du Pless.

Verwoerd & du Plessis (1930 a) 327.

on **Monstera deliciosa** Liebm., Stellenbosch, *Verwoerd* (Stell. 387) Type.

Diplodia natalensis Pole Evans

Pole Evans (1910 a) ; Sacc. Syll. Fung. XXII : 992 ; Eyles (1926) 633 ; Doidge (1929 b) 323 ; Doidge & Bottomley (1931) 27, 34, 39, 43, 45, 64 ; Doidge & van der Plank (1936) 18 ; Bates (1937 a) 157, (1937 b) 176, 194 ; Hopkins (1938 a) 116, (1939 a) 11, 13, (1943) 178, 182.

on **Aleurites Fordii** Hemsl., Salisbury, *Hopkins*.

Citrus Limonia Osbeck, Verulam, *Pole Evans ;* Nelspruit, *Loest*, 33556, 33557.

Citrus maxima Merr., Umtali (Rh. 1080, 1082, 1083) ; Mazoe, *Bates*.

Citrus nobilis Lour. var. **deliciosa** Sw., Natal coast.

Citrus sinensis Osbeck, Warner Beach, *Pole Evans*, 7382 ; Pretoria, *Bredell*, 5131 ; Mazoe, *Bates* (Rh. 1487) 25956 ; Godwan River, *Loest*, 29975 ; Martizburg, *Wager*, 33298 ; Zebediela, *Loest*, 33558 ; Umtali, *Hopkins* (Rh. 1003).

Poncirus trifoliata Raf., on twigs, Durban.

Diplodia palmicola Thuem.

Pole Evans (1914) 154 ; Cardoso (1939) 44, (1945) 159.

on **Cocos nucifera** Linn., Zambesi Region (det. S. da Camara) ; Moçambique, *Cardoso ;* Quelimane, *Pole Evans ;* Nhula, *Guimarães*.

Diplodia pinea (Desm.) Kickx.

H. & P. Sydow (1909) 547 ; Fisher (1912) 389, (1931 a) 301 ; Verwoerd (1929 b) 22, (1931 a) 301 ; Doidge & Bottomley (1931) 50 ; Nel (1942) 102 ; Hopkins (1943) 188.

Sphaeropsis pinicola Speg., Laughton (1936) 377.

Macrophoma pinea (Desm.) Petrak & Sydow (1926) 116.

on **Araucaria braziliana** A. Rich., Salisbury, *Hopkins*.

Pinus canariensis C. Smith, Fort Cunynghame, 6605.

Pinus caribaea Morelet, Brooklands, *Bottomley*, 32046.

Pinus halepensis Mill., Fort Cunynghame, 6591, 6668 ; Evelyn Valley Plantation, *D.F.O.*, 8946 ; Stutterheim, *Laughton*, 33390.

Pinus leiophylla Schlecht. & Cham., Cedara, *D.F.O.*, 14692, 17012.

Pinus longifolia Roxb., Waterfall Estate, nr. Sabie, *Bottomley*, 32047.

Pinus Montezumae Lamb, Cedara, *D.F.O.*, 14826.

Pinus muricata Don., Cedara, *D.F.O.*, 14827.

Pinus oocarpa Schiede, Cedara, *D.F.O.*, 14829.

Pinus oocarpa var. **microphylla,** Cedara, *D.F.O.*, 14830.

Pinus palustris Mill., Fort Cunynghame, 6669.

Pinus patula Schiede, Pilgrim's Rest, *D.F.O.*, 26632, *Bottomley*, 32048 ; Brooklands, *Bottomley*, 32043 ; Rosehaugh, *Bottomley*, 32044 ; near Sabie, *Bottomley*, 32045.

Pinus pinaster Ait., Harrismith, 913 ; Cedara, *Fisher*, 2101, *D.F.O.*, 14832, 17010 ; Nqadu Heights, *D.F.O.*, 5158, 14822 ; Fort Cunynghame, 6606 ; Kokstad, *D.F.O.*, 10038 ; Fort Donald, *D.F.O.*, 18026 ; George, *D.F.O.*, 26859 ; Kleinplaat, George, Knysna, *Laughton*, 33283 ; Knysna, *Laughton*, 33237.

Pinus pinaster var. **Hamiltoni,** Cedara, *D.F.O.*, 12513.
Pinus pseudostrobus Lindl., Cedara, *D.F.O.*, 17011.
Pinus pseudostrobus var. **tenuifolia,** Cedara, *D.F.O.*, 14828.
Pinus radiata Don., Fort Cunynghame, 6691 ; Evelyn Valley Plantation, *D.F.O.*, 8947 ; Ntywenka Plantation, *D.F.O.*, 26308 ; Stutterheim, *Laughton*, 33402 ; Isidenge Plantation, *D.F.O.*, 26172 ; Hogsback, *D.F.O.*, 26857, Kew ; Katberg, *D.F.O.*, 27357 ; Geelhoutboomberg, *D.F.O.*, 26858, Kew ; Brooklands, *Bottomley*, 32042 ; Cedara, *D.F.O.*, 14831 ; Woodbush, *D.F.O.*, 15445 ; Belfast, *D.F.O.*, 11333 ; Lourenço Marques, *Hardenberg*, 21244 ; Knysna, *Verwoerd* (Stell. 415), *J. Phillips* (v. d. Byl 2477) ; Mtao, *Hopkins*.
Pinus Sabiniana Dougl., Fort Cunynghame, 6671.
Pinus Thunbergii Parl., Fort Cunynghame, 6671.
Pinus spp., White River, *Gazalet*, 25893 ; Maritzburg, *D.F.O.*, 30846 ; Komgha, *Crewe*, 27812 ; Durban, *v. d. Byl 395*.

Diplodia sarmentorum Fr.
on **Citrus sinensis** Osbeck, bark of dead Valencia Late twigs, Mazoe, *Bates*, 33580, and in culture, 34007.

Diplodia tubericola (Ell. & Ev.) Taubenh.
U.S. Dept. Agric. (1941) 58.
? as *Diplodia* sp., U.S. Dept. Agric. (1932) 354.
on **Ipomoea batatas** Poir., intercepted in United States on tubers from South Africa ; not recorded locally.

Diplodia variispora Died.
on **Syzygium cordatum** Hochst., Eshowe, *McClean*, 33092.

Diplodia Vignae Sacc.
Saccardo (1904) 7 ; Sacc. Syll. Fung. XXII : 995.
on **Vigna unguiculata** (L.) Walp., Lourenço Marques, *Moller*.

Diplodia Zeae (Schw.) Lév.
Pole Evans (1911 b) 258 ; van der Byl (1914), (1916 b) ; Mitchell (1918 a) 425 ; Eyles (1926) 642 ; Theiler (1927) 1 ; Doidge & Bottomley (1931) 36 ; Verwoerd (1931 a) 301 ; Watt & Breijer-Brandwyk (1932) 215 ; Steyn (1934) 171, 173 ; Hopkins (1938 a) 116, (1939 a) 49 ; Cardoso (1939) 45, (1945) 149 ; Nel (1942) 102.
Diplodia Maydis Sacc., Pole Evans (1913 b) 172.
on **Zea Mays** Linn., Mooi River, 5177 ; Ixopo, *Pole Evans*, 5628, *Schofield* (v. d. Byl 504) 30787 ; Potchefstroom, *Burtt Davy*, 924, 12246, *Verwoerd* (Stell. 79) ; Middelkop, *Mogg*, 20440, 20997 ; Pretoria, 33368, *de Villiers*, 25472, 25425 ; Roodekuil Estate, Warmbaths, *Bottomley*, 18132 ; Malkerns, *Carrington*, (v. d. Byl 395 a) 19844 ; Bloemfontein, *Verwoerd ;* Pretoria, 33368 ; Piet Retief, *Sands*, 33892 ; Hunyani (Rh. 1094) ; Salisbury, *Mundy*, 14110, (Rh. 1376) ; Chakari (Rh. 1370) ; Arcturus (Rh. 1374) ; Norton (Rh. 1397) ; Moçambique, *Cardoso ;* Umbeluzi, *Oliveira*.

Microdiplodia rikatliensis Petrak
Petrak (1927) 293.
on **Dialium Schlechteri** Harms., Rikatli, *Junod*, 11726, Type.

HYALOPHRAGMIAE.

Septoriella striiformis (Syd.) Sacc.

Sacc. Syll. Fung. XXV : 480.

Linochorella striiformis Syd., H. & P. Sydow (1912 a) 44 ; Doidge & Bottomley (1931 57.

on **Heteropogon contortus** R. & S., Skinner's Court, *Pole Evans*, 1179, Type.

Stagonospora Atriplicis (West.) Lind

Hopkins (1939 a) 45.

on **Syzygium guineense** (Willd.) DC., Umtali, *Hopkins*.

Stagonospora cryptogea Syd.

H. Sydow (1939 a) 190.

on **Phyllachora Doidgeae** Syd. on leaves of *Cymbopogon marginatus* Stapf, Donkerpoort, *Doidge & Bottomley*, 29744, Type.

Stagonospora Kentiae Maubl.

Hopkins (1938 a) 118.

on **Phoenix** sp., Salisbury, (Rh. 798).

Stagonospora nerinicola Dipp.

Dippenaar (1931 c) 286 ; Nel (1942) 106.

on **Nerine sarniensis** Herb., Stellenbosch, *Dippenaar* (Stell. 523, 918, 919 ; v. d. Byl 2613) Type ; Wynberg, *Verwoerd* (Stell. 404).

PHAEOPHRAGMIAE.

Hendersonia Magnoliae Sacc.

Verwoerd & du Plessis (1931) 291 ; Nel (1942) 102.

on **Magnolia grandiflora** Linn., Wynberg, *Verwoerd* (Stell. 465 ; v. d. Byl 2743).

Hendersonia Osteospermi Wakef.

Wakefield (1922) 165 ; van der Byl (1925 b) 196 ; Nel (1942) 102.

on **Osteospermum** sp., Keurboomsrivier, *v. d. Byl 409*.

Hendersonia Rubi West.

Pole Evans (1914) 151.

on **Rubus loganobaccus** Bailey, Stellenbosch.

Hendersonia sparsa Wint.

Winter (1885 b) 33 ; Sacc. Syll. Fung. X : 328.

on **Bobartia spathacea** Ker., Table Mt., *MacOwan*, Type.

Hendersonia Wistariae Cooke

Verwoerd & du Plessis (1931) 291.

on **Wisteria sinensis** Sweet, Stellenbosch, *du Plessis*, (Stell. 474).

Hendersonula toruloidea Nattrass

Bates (1937 b) 200 ; Fawcett (1936) 464.

on **Citrus sinensis** Osbeck, fruit, Mazoe, *Bates*.

PHAEODICTYAE.

Thyrococcum humicola Buchanan
on **Triticum aestivum** Linn., roots, Stellenbosch, *Gorter*, 33364.

SCOLECOSPOREA.

Cryptogene Parodiellae Syd.
H. Sydow (1939 b) 240 ; Hopkins (1939 a) 51.
on **Parodiella perisporioides** (Berk. & Curt.) Speg. on *Dolichos lupiniflorus* N.E. Br., Sinoia, *Hopkins 2239, 2832*, Type, 31052 a, 31053 a.

Cryptogenella Parodiellae Syd.
H. Sydow (1939 b) 241 ; Hopkins (1939 a) 51.
on **Parodiella perisporioides** (B. & C.) Speg. on *Dolichos lupiniflorus* N.E. Br., Sinoia, *Hopkins 2239, 2832*, Type, 31052 b, 31053 b.

Linochora Doidgei Syd.
H. & P. Sydow (1912 a) 43.
on **Restio** sp., Bain's Kloof, *Doidge*, 1219.

Septoria Antirrhini Desm.
Verwoerd (1929 b) 25, (1931 a) 301 ; Doidge & Bottomley (1931) 57 ; Nel (1942) 104.
on **Antirrhinum majus** Linn., Pretoria, *Wager*, 21576 ; Port Elizabeth, *Bishop*, 33238 ; Wellington, *Davies*, 27265 ; Bloemfontein, *Verwoerd ;* Claremont, *Verwoerd* (Stell. 358) ; Stellenbosch, *Dippenaar* (Stell. 970), *v. d. Byl 2064 ;* Elsenburg, *Dippenaar* (Stell. 1002) ; Hopefield, *v. d. Byl 2601.*

Septoria Apii Chester
Doidge & Bottomley (1931) 17 ; Hopkins (1938 a) 117, (1939 a) 5.
Septoria Petroselini Desm. var. *Apii* Br. & Cav., Verwoerd (1929 b) 10, (1931 a) 300.
on **Apium graveolens** Linn. var. **dulce** DC., Pretoria, *Pole Evans*, 6923, 6970, *Doidge*, 27677 ; Stellenbosch, *Verwoerd* (Stell. 8) and *du Plessis ;* Dieprivier, Cape Flats, Wellington, *Verwoerd ;* Port Elizabeth, *Barron*, 33900 ; Cavendish, *Wager*, 32714 ; Johannesburg, 33901 ; Pinetown, *Wager ;* Salisbury, *Hopkins ;* Rhodesia general, *Hopkins.*

Septoria Apii-graveolentis Dorogin
U.S. Dept. Agric. (1944) 32.
on **Apium graveolens** Linn. var. **dulce** DC., intercepted in the United States on material from South Africa.

Septoria Aracearum Sacc.
? as *Septoria Ari* Desm., Doidge & Bottomley (1931) 10 ; Nel (1942) 104.
? as *Septoria Richardiae*, Verwoerd (1929 b) 7.
on **Zantedeschia aethiopica** (L.) Spreng., Kentani, *Pegler 2359*, Kew ; Stellenbosch, *Eyles* (Stell. 37), *du Plessis* (Stell. 939) ; Somerset West, Kuilsrivier, Frenchhoek, Wellington, *Verwoerd ;* Paarl, *du Plessis* (Stell. 835) ; Tulbagh, *Dippenaar* (Stell. 504, 938) ; Storms River, *Laughton*, 34222.
Zantedeschia sp., Stellenbosch, *Eyles* (v. d. Byl 1116) ; Wellington, *Doidge*, 985.

Septoria Atriplicis (West.) Fuck.

Verwoerd & du Plessis (1931) 295.

on **Chenopodium murale** Linn., Umtata, *Pegler 2401*, 9736 ; Stellenbosch, *v. d. Byl 99*, *Verwoerd* (Stell. 322), *du Plessis* (Stell. 876), *Dippenaar* (Stell. 869) ; Paarl, *Verwoerd* (Stell. 466) ; Ceres, *Verwoerd* (Stell. 467).

Septoria Avenae Frank

Verwoerd & du Plessis (1933) 232.

on **Avena sativa** Linn., Stellenbosch, *Dippenaar* (Stell. 630) ; Malmesbury, Moorreesburg, *Verwoerd & du Plessis*.

Septoria Azaleae Vogl.

Verwoerd (1931 a) 300.

on **Rhododendron indicum** Sweet, Bloemfontein, *Verwoerd*.

Septoria Bambusae Verw. & du Pless.

Verwoerd & du Plessis (1931) 295 ; Verwoerd (1931 a) 301.

on **Bambusa Balcooa** Roxb., Stellenbosch, *Verwoerd* (Stell. 468) Type ; Brandfort, *Verwoerd* (Stell. 291).

Septoria Buddleiae Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 20 ; Sacc. Syll. Fung. III : 498.

Depazea Buddleyae Thuem., von Thuemen (1876 b) 571, (1879) 127.

on **Buddleia salvifolia** Lam., Somerset East, *MacOwan 1251 c*, Type (Thuem. Myc. Univ. 1093 ; Rabenh. Fung. Eur. 2894) Kew.

Septoria Byliana Syd.

H. Sydow (1924 a) 238 ; Nel (1942) 104.

on **Gunnera perpensa** Linn., Genadendal, *Verwoerd*, Type (Stell. 143 ; v. d. Byl 1279).

Septoria capensis Wint.

Winter (1885 b) 33 ; Sacc. Syll. Fung. X : 350.

on **Zizyphus mucronata** Willd., Cape, *MacOwan ;* ? Schagen, *Liebenberg*, 32877.

Septoria Caryophylli Scalia

on **Dianthus caryophyllus** Linn., Nelspruit, *Stanford*, 30639.

Septoria Cephalariae Kalchbr.

in Herb. Kew, nom. nud.

on **Cephalaria attenuata** (L.f.) R. & S., Cape, *MacOwan 1338*, Kew.

Septoria cercosporioides Trail

Dippenaar (1931 c) 285 ; Nel (1942) 104.

on **Chrysanthemum Leucanthemum** Linn., Stellenbosch, *Verwoerd* (Stell. 420), *du Plessis* (Stell. 506, 935), *v. d. Byl 2609*.

Septoria Chenopodii West.

Nel (1942) 104.

on **Chenopodiaceae** undet., Helderberg, Stellenbosch, *v. d. Byl 99*.

Septoria Chrysanthemi Allesch.

Cardoso (1945) 161.

Septoria chrysanthemella Sacc., Verwoerd (1929 b) 10 ; Doidge & Bottomley (1931) 16, 56 ; Hopkins (1938 a) 117, (1939 a) 10, (1943) 182 ; Cardoso (1939) 45.

on **Chrysanthemum maximum** Ram., Pretoria, *Doidge*, 29950, 32806, *Wager*, 22832.

Chrysanthemum morifolium Ram., Pretoria, *Bottomley*, 21249, 23226, 25428, 33491 ; Johannesburg, *Hingst*, 28611 ; Maritzburg, *Mayne*, 9689 ; Wellington, *Verwoerd ;* Salisbury (Rh. 1099) ; General in Southern Rhodesia, *Hopkins ;* Moçambique, *Cardoso ;* Lourenço Marques, *Mota.*

Septoria Citri Pass.

Bates (1937 b) 202 ; U.S. Dept. Agric. (1941) 63.

on **Citrus Limonia** Osbeck, intercepted in the United States on lemons from South Africa.

? on **Citrus sinensis** Osbeck, Mazoe, *Bates.*

Septoria Citrulli Ell. & Everh.

on **Cucurbita Pepo** Linn., Cedarmont, *Garnett*, 10030.

Septoria Cotyledonis Wakef.

Wakefield (1931) 203 ; Nel (1942) 104.

on **Cotyledon orbiculata** Linn., Elsenburg, *v. d. Byl 890*, Kew.

Septoria Cucurbitacearum Sacc.

Hopkins (1938 a) 117.

on **Cucurbita Pepo** Linn., Concession (Rh. 347) ; Salisbury (Rh. 2295).

Septoria Dianthi Desm.

Eyles (1926) 632 ; Doidge & Bottomley (1931) 17, 60 ; Verwoerd (1931 a) 301 ; Hopkins (1938 a) 117, (1939 a) 17 ; Nel (1942) 104.

Ascochyta Dianthi Berk., Doidge & Bottomley (1931) 17.

on **Dianthus barbatus** Linn., Bloemfontein, *Verwoerd.*

Dianthus caryophyllus Linn., Pretoria, *Pole Evans*, 131 ; Vereeniging, 1527 ; Duivelskloof, *Guebille*, 23700 ; Grahamstown, *Jolly*, 29925 ; Uitenhage, *Schmutz*, 23399 ; Nelsrust, *Dickenson*, 10720 ; Maritzburg, *Schultz*, 29716 ; Ladysmith, *Bright*, 34163. 29717, *Smutz*, 30428 ; Mamathes, *Hean*, 30769 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell. 189), *du Plessis* (Stell. 868), *v. d. Byl 1887 ;* French Hoek, *Dippenaar* (Stell. 937) ; Salisbury, *Eyles* (Rh. 2344, 2905) ; Moçambique, *Cardoso ;* Lourenço Marques, *Mota.*

Septoria Doehlii Syd.

as *Septoria* sp., v. d. Byl (1922 d) 187.

? on **Silene gallica** Linn., Kentani, *Pegler 2451*, 10995 ; Stellenbosch, *v. d. Byl.*

Septoria Drummondii Ell. & Everh.

Verwoerd (1929 b) 22, (1931 a) 301 ; Hopkins (1938 a) 117, (1939 a) 33 ; Doidge & Bottomley (1931) 50.

on **Phlox Drummondii** Hook., Pretoria, *Doidge*, 26085 ; Prinshof, *Hean*, 30650 ; Johannesburg, *Rainier*, 30252, Schreiber, 34179 ; Durban, *McClean*, 30775 ; Sunnyside, Pretoria, *Bathurst*, 33761 ; Bloemfontein, *Verwoerd ;* Salisbury (Rh. 1598) Kew.

Septoria Evansii Syd.

H. & P. Sydow (1912 c) 442 ; Sacc. Syll. Fung. XXV : 450.

on **Chrysophyllum Magalismontanum** Sond., Wapadsnek, *Pienaar*, Type, 1975 ; Barberton, *v. d. Byl*, 5133.

Septoria fructigena Berk. & Curt.

Septoria Passiflorae Louw (1941) 33.

on **Passiflora edulis** Sims., Elim, *Thomas*, 33453 ; Entumeni, *Fry*, 33775 ; Frenchhoek, *Louw* (Stell. 1063) ; Stellenbosch, *Nel* (Stell. 841) ; George, *Clifton* (Stell. 1037).

Passiflora quadrangularis Linn., Durban, 1014 ; Elim, *Mingard*, 28647.

Passiflora quitensis, Frenchhoek, Stellenbosch, *Louw*.

Part of the type collection of *Septoria Passiflorae* Louw was examined at the I.M.I. and found not to differ from *S. fructigena* Berk. & Curt.

Septoria Gerberae Syd.

H. & P. Sydow (1912 a) 43 ; Sacc. Syll. Fung. XXV : 416 ; Doidge & Bottomley (1931) 11 ; Verwoerd (1931 a) 301 ; Dippenaar (1931 c) 286 ; Hopkins (1938 a) 117, (1939 a) 20, (1943) 185 ; Nel (1942) 105.

on **Gerbera Burmanni** Cass., Stellenbosch, *Dippenaar* (Stell. 913).

Gerbera discolor Sond., Salisbury, *Hopkins* (Rh. 5553).

Gerbera Jamesoni Bolus, Pretoria, *Pole Evans*, 24, *Doidge*, 9697 ; Barberton, *Doidge*, 2013 ; Kaapmuiden, *Hulley*, 27579 ; Durban, *v. d. Byl 484, 1284*, 31773 ; Maritzburg, *Schmutz*, 30097 ; Chase Valley, *Wager*, 33286 ; Grootfontein, nr. Harrismith, *v. d. Byl*, 2312 ; Bloemfontein, *Verwoerd ;* Paarl, Cape Town, Caledon, Wynberg, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell. 58); Salisbury, *Hopkins* (Rh. 137) Kew ; general in Southern Rhodesia, *Hopkins*.

Septoria Gladioli Pass.

on **Gladiolus** sp., Stellenbosch, *Dippenaar* (Stell. 1000).

Septoria Gomphocarpi P. Henn.

P. Hennings (1902) 39.

on **Gomphocarpus** sp., Clanwilliam, *Diels 571 a*, Type.

Septoria graminum Desm.

van der Byl (1922 d) 287.

on **Triticum aestivum** Linn., Stellenbosch, *v. d. Byl ;* Elim, 2098.

Septoria Gymnosporiae Syd.

H. & P. Sydow (1912 a) 43 ; van der Byl (1926 c) 289.

on **Gymnosporia deflexa** Sprague, Driefontein, *Doidge*, 1828, Type.

Septoria Helianthi Ell. & Kellerm.

Doidge & Bottomley (1931) 59 ; Verwoerd (1931 a) 300 ; Hopkins (1938 a) 117, (1939 a) 22 ; Nel (1942) 104.

on **Helianthus annuus** Linn., Maritzburg, *Pole Evans*, 1385 ; Barberton, *Parsons*, 24902 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *Dippenaar* (Stell. 511), *v. d. Byl 1401 ;* fairly common in the Union of South Africa, *Doidge & Bottomley ;* Salisbury, *Hopkins* (Rh. 1366) Kew ; Mtepetepa, *Hopkins*.

Septoria Helichrysi Syd.

H. & P. Sydow (1912) 443 ; Sacc. Syll. Fung. XXV : 416.
on **Helichrysum acutatum** DC., Nelspruit, *Liebenberg*, 26040.
Helichrysum nudifolium var. **leiopodium** (DC.) Moeser, The Thorns, *Pole Evans*, 1525.

Septoria Knowltoniae Verw. & Dipp.

Verwoerd & Dippenaar (1930 a) 327.
on **Knowltonia vesicatoria** Sims, Gordons Bay, *Verwoerd* (Stell. 72), Type.

Septoria Lactucae Pass.

Hopkins (1938 a) 117, (1939 a) 24.
on **Lactuca sativa** Linn., Bethal, *Floquet*, 26631 ; Gillitts, *Wager*, 33199 ; Verulam, *Wager ;* Durban, *Wager ;* Stellenbosch, *Dippenaar* (Stell. 1034) ; Salisbury (Rh. 2154).

Septoria Lolii (Cast.) Sacc.

Dippenaar (1931 c) 286 ; Nel (1942) 104.
on **Lolium** sp., Tulbagh, *Duthie* (Stell. 507, 905 ; v. d. Byl 2598).

Septoria longispora Miyake

Cardoso (1945) 150.
on **Oryza sativa** Linn., leaves, Chonguene, *Ribeiro Mendes.*

Septoria Lycopersici Speg.

Burtt-Davy (1904) 296 ; van der Byl (1922 d) 287, (1926 c) 289 ; Verwoerd (1929 b) 27, (1931 a) 301 ; Doidge & Bottomley (1931) 64 ; Hopkins (1938 a) 117, (1939 a) 25 ; Nel (1942) 105.
on **Lycopersicum esculentum** Mill., Harden Heights, *Pole Evans*, 1980 ; Cavendish, *Wager*, 32463 ; Kilgobbin, *Fannin*, 31830 ; Grahamstown, *Dewar*, 262, *Schonland*, 21984 ; Kentani, *Pegler 1982*, 8856 ; Stellenbosch, *Verwoerd* (Stell. 9), *v. d. Byl 641 ;* Kuils River, *Bosman* (Stell. 510) ; Paarl, Wellington, *Verwoerd ;* Christiana, *Quin*, 1225 ; Haenertsburg, 105; Pretoria, *Burtt Davy*, 98, *Pole Evans*, 221, 396, *Doidge*, 9695 ; Johannesburg, 235 ; Grasmere, *Kennard*, 27378 ; Nelspruit, 86, 6602 and *Liebenberg*, 26034 ; Zandfontein, Pretoria Distr., *Kresfelder*, 15459 ; New Agatha, *McCallum*, 26331 ; Bloemfontein, *Verwoerd ;* Salisbury, *Hopkins* (Rh. 491) Kew ; general in Southern Rhodesia, *Hopkins.*
Lycopersicum pimpinellifolium Mill., Pretoria, *Hean*, 32658.

Septoria Meliae Syd.

H. & P. Sydow (1912 c) 443 ; Sacc. Syll. Fung. XXV : 441.
on **Melia Azedarach** Linn., Maritzburg, *Pole Evans*, 1393.

Septoria Nesodes Kalchbr.

Kalchbrenner & Cooke (1880) 20 ; Sacc. Syll. Fung. III : 531.
Depazea Nesodes Thuem., von Thuemen (1875) 380.
Sphaeria Nesodes Berk. & Br. f. *Hydrocotyles asiaticae* von Thuemen (1875) 380.
on **Hydrocotyle asiatica** Linn., nr. Somerset East, *MacOwan 1115*, Type (Thuem. Myc. Univ. 1186 ; Rabenh. Fung. Eur. 3494 ; S.A.M. 35139) 3834, 20916, 21953, 21975, Kew ; Schagen, *Liebenberg*, 26078 ; Deepwalls, *Bottomley*, 32255 ; Eshowe, *Laughton*, 33517.

Septoria nodorum Berk.

Verwoerd (1930) 1 ; Doidge & Bottomley (1931) 67.

on **Triticum aestivum** Linn., Malmesbury, *Verwoerd ;* Stellenbosch, *Dippenaar* 33363, *Verwoerd* (Stell. 439) ; Paarl, *Louw* (Stell. 940).

Septoria Oenotherae West.

Nel (1942) 105.

on **Oenothera** sp., Stellenbosch, *Dippenaar* (v. d. Byl 2699).

Septoria Ornithogali Pass.

on **Ornithogalum lacteum** Jacq., Kentani, *Pegler 2346*, 9080, Kew.

Septoria Osteospermi Dipp.

Dippenaar (1931 c) 285 ; Nel (1942) 105.

on **Osteospermum moniliferum** Linn., Stellenbosch, *Dippenaar*, Type (Stell. 872, 891 ; v. d. Byl 2608), *Verwoerd* (Stell. 406) ; Tulbagh, *Dippenaar* (Stell. 999).

Septoria Passerini Sacc.

Dippenaar (1931 c) 286.

on **Hordeum murinum** Linn., Ceres, *Dippenaar* (Stell. 501, 502, 968).

Septoria Pelargonii Syd.

H. & P. Sydow (1912 c) 443 : van der Byl (1922 d) 287 ; Sacc. Syll. Fung. XXV : 425 ; Doidge & Bottomley (1931) 26, 49 ; Verwoerd (1929 b) 21.

on **Pelargonium angulosum** Ait., Stellenbosch, *Verwoerd* (Stell. 118).
Pelargonium cucullatum Ait., Cape Town, 695, Type.
Pelargonium sp., Constantia, 9191 ; Stellenbosch, *Brain,* (v. d. Byl 221), *du Plessis* (Stell. 656) ; Paarl, Wynberg, Wellington, *Verwoerd ;* Bloemfontein, *Verwoerd ;* Genadendal, *Verwoerd* (Stell. 144), *v. d. Byl 1282.*

Septoria perforans McAlp.

Verwoerd & du Plessis (1931) 296.

as *Septoria* sp., Verwoerd (1929 b) 12.

on **Cryptostemma calendulaceum** R. Br., Stellenbosch, *Verwoerd* (Stell. 411), *Dippenaar* (Stell. 867, 977).

Septoria Petroselini Desm.

Pole Evans (1906 a) 139 ; Verwoerd (1929 b) 20 ; Doidge & Bottomley (1931) 46 ; Hopkins (1938 a) 118, (1939 a) 32 ; Nel (1942) 105.

on **Petroselinum hortense** Hoffm., Maritzburg, *Doidge,* 1991 ; Pretoria, *Burtt Davy,* 175 ; Stellenbosch, Dieprivier, *Verwoerd ;* Hopefield, *v. d. Byl 1001 ;* Salisbury (Rh. 2542).

Septoria Pisi West.

Verwoerd (1929 b) 20 : van der Byl (1922 d) 287 ; Doidge & Bottomley (1931) 47 ; Nel (1942) 105.

on **Pisum sativum** Linn., Cyferbult Siding, *I'Ons,* 18120 ; Brooklyn, Pretoria, *Schaefer,* 33756 ; Stellenbosch, *Verwoerd* (Stell. 101 ; v. d. Byl 80, 1179) ; Elgin, *Verwoerd ;* Paarl (Stell. 505) ; Grahamstown, *Pringle,* 34234.

Septoria Podocarpi Thuem.

von Thuemen (1878 a) 357 ; Sacc. Syll. Fung. III : 507.
on **Podocarpus latifolius** R.Br., Grahamstown, *MacOwan 1253*, Type.

Septoria Polygoni-lapathifolii v. d. Byl.

van der Byl (1928 b) 186 ; Nel (1942) 105.
on **Polygonum lapathifolium** Linn., Oudtshoorn, *v. d. Byl 2489*, Type ; ? Debbe's Ravine, *Bosman*, 32902.

Septoria pyricola Desm.

Doidge & Bottomley (1931) 49 ; Dippenaar (1931 c) 285 ; Nel (1942) 105.
on **Pyrus communis** Linn., Kingwilliamstown, *Dreyer*, 1183, *Kelly*, 9533 ; Belmont Valley, *Doidge*, 10953 ; Misgund, *Stone*, 18098 ; Stellenbosch, *du Plessis* (v. d. Byl 2604 ; Stell. 503, 942), *Dippenaar* (Stell. 969, 1001) ; Piquetberg, *Dippenaar* (Stell. 1038) ; Joubertina, *Reineike*, 34001 ; Elgin, *Louw* (Stell. 1054).

Septoria ranunculacearum Lév.

Verwoerd (1929 b) 24, (1930 a) 300 ; van der Byl (1925 b) 196 ; Nel (1942) 105.
on **Ranunculus Cooperi** Oliv., Umhlanga Rocks, *Wager*, 32709.
Ranunculus sp., Bloukransrivier, *v. d. Byl 1376 ;* Bloemfontein, *Verwoerd*.

Septoria Ribis Desm.

on **Ribes** sp., Johannesburg, 1516.

Septoria Rubi West.

Van der Byl (1922 d) 287 ; Verwoerd (1929 b) 8 ; Doidge & Bottomley (1931) 13 ; Nel (1942) 105.
on **Rubus cuneifolius** Pursh., Maritzburg, 30429.
Rubus loganobaccus Bailey, Stellenbosch, *v. d. Byl 220*.
Rubus ursinus Cham. & Schlecht., Stellenbosch, *Buller*, 6932, 7368, *Verwoerd* (Stell. 36).
Rubus spp., Stellenbosch, Somerset West, Piquetberg, Wynberg, Verwoerd ; George, *Reinecke* (Stell. 1039, 1040), *Dippenaar* (Stell. 1035); (Thornless Youngberry) Krakeel, *Reinecke*, 34150, 34214.

Septoria scabiosicola Desm.

Kalchbrenner (1882 a) 146 ; Hopkins (1939 a) 41.
on **Scabiosa columbaria** Linn., Cape, *MacOwan* ; Schagen, *Liebenberg*, 26175 ; Salisbury, *Hopkins*.

Septoria Schlechteriana P. Henn.

Hennings (1898) 295 ; Sacc. Syll. Fung. XVI : 969.
on **Asclepias fruticosa** Linn., Windhoek, *Schlechter*, Type, Kew.

Septoria Sparmanniae Verw. & du Pless.

Verwoerd & du Plessis (1931) 296 ; Nel (1942) 105.
on **Sparmannia africana** Linn., f., Bloukransrivier, *v. d. Byl 2700*, Type ; Noetze, *J. Phillips* (v. d. Byl 2231).

Septoria Thuemenii Sacc.

Sacc. Syll. Fung. III : 498.
Depazea Buddleiae Thuem., von Thuemen (1876 b) 571.
on **Buddleia auriculata** Benth., Boschberg, *MacOwan 1251*, Type (Thuem. Myc. Univ. 1093) 20917, 21952.

Septoria Tritici Desm.

Verwoerd (1929 b) 28, (1931 a) 3001; Doidge & Bottomley (1931) 67.
on **Triticum aestivum** Linn., Paarl, *Verwoerd* (Stell. 367) ; Stellenbosch, Malmesbury, *Verwoerd ;* Bloemfontein, *Verwoerd.*

Septoria umbelliferarum Kalchbr.

Kalchbrenner & Cooke (1880) 20 ; Sacc. Syll. Fung. III : 528.
on **Umbelliferae** undet., Somerset East, *MacOwan 1393*, Type, Kew.

Septoria Vignae P. Henn.

Wickens (1937) 690 ; Hopkins (1938 a) 118, (1939 a) 47.
on **Vigna unguiculata** (L.) Walp., Matopos (Rh. 3217).

Septoria zeina Stout
? on **Sorghum vulgare** Pers., Salisbury, *Hopkins* (Rh. 4428).

Septoria sp.

Eyles (1926) 633.
on **Cissus** sp., Southern Rhodesia, *Eyles.*

Septoria sp.
on **Eucomis punctata** L'Herit., Kentani, *Pegler 2378*, Kew.

GENUS DUBIUM.

Levieuxia natalensis Fr.

Fries (1848) 32 ; Sacc. Syll. Fung. III : 321 ; von Höhnel (1910 b) 654 ; Petrak & Sydow (1927) 89.
on bark, Natal, *Wahlberg*, Kew ex Herb. Berk.

NECTRIOIDACEAE.

HYALOSPORAE.

Zythia Welwitschiae P. Henn.

P. Hennings (1903) 168 ; Sacc. Syll. Fung. XVIII : 409.
on **Welwitschia Bainesii** (Hook. f.) Carr., Buraco nr. Mossamedes, *Baum 1 a*, Type, Kew.

PHAEOSPORAE.

Harknessia uromycoides Speg.

Doidge & Bottomley (1931) 23.
on **Eucalyptus amygdalina** Lab., Irene, *Doidge*, 2261.

LEPTOSTROMATACEAE.

Hyalosporae.

Gloeodes pomigena (Schw.) Colby

Doidge & Bottomley (1931) 8; Hopkins (1938 a) 118, (1939 a) 39; Hopkins & Bacon (1938) 408.
on **Pyrus malus** Linn., fruit, Highbury, *Mingay*, 2707; Belfast, *Hall*, 33117; Salisbury (Rh. 1539); Umtali (Rh. 3435); Inyanga, M'Soneddi, *Hopkins*.

Leptothyrium Evansii Sydi

H. & P. Sydow (1912 c) 443.
on **Encephalartos** sp., Mountain Rise, *Doidge*, 864, Type.

Leptothyrium Pomi (Mont. & Fr.) Sacc.

Doidge & Bottomley (1931) 7.
on **Pyrus malus** Linn., Belfast, *Hall*, 33118; Donnybrook, *Dearlove*, 17078; Haenertsburg, *Bottomley*.

?Melasmia confluens (Kalchbr. & Cooke) v. Höhn.

von Höhnel (1910 a) nr. 490.
Asterina confluens Kalchbrenner & Cooke (1880) 33; Sacc. Syll. Fung. I: 49.
Doidge (1942 a) 325.
on **Canthium ciliatum** O. Kze., Boschberg, *MacOwan 1259, 1331* (Thuem. Myc. univ. 775, sub *Meliola Psilostomae* Thuem.) Kew.

Melasmia Parinarii P. Henn.

Hennings (1903) 168; Sacc. Syll. Fung. XVIII: 425.
on **Parinarium Mobola** Oliv., between Kubango and Kassinga, *Baum 924*, Kew.

Sirothecium Citri Bitanc.

as *Gloeodes pomigena* (Schw.) Colby, van der Plank (1933) 3.
as *Leptothyrium Pomi* (Mont. & Fr.) Sacc., Doidge & Bottomley (1931) 45.
conidial form of *Stomiopeltis Citri* Bitanc.
on **Citrus sinensis** Osbeck, Nelspruit, *Loest*, 33483; Chase Valley, *Wager*; Gillits, *Wager*; common on fruit in northern and eastern Transvaal and in Natal, *v. d. Plank*.

Phaeosporae.

Asterostomella eugenicola Doidge

Doidge (1942 a) 330, 338.
on **Eugenia natalitia** Sond., Hogsback, *Henderson*, 11340, Type.

Asterostomella Visci Doidge

Doidge (1942 a) 330, 338.
on **Viscum obscurum** Thunb., Assegai Bush, *Doidge*, 17237, Type; Langholm Estates, *Doidge*, 12366; Belmont Valley, *Doidge*, 10951; Knysna, *Bottomley*, 32114, 32237.

Scolescosporae.

Leptostromella Acaciae Syd.

H. & P. Sydow (1912 a) 43 ; Sacc. Syll. Fung. XXV : 522 ; van der Byl (1926 c) 289.

on **Acacia-Rehmanniana** Schinz, legumes, Pietersburg, *Doidge*, 1843, Type.

Thyrinula eucalyptina Petrak & Syd.

Petrak & Sydow (1924) 373 ; Doidge (1942 a) 275.

see also *Lembosiopsis eucalyptina* Petrak & Syd.

on **Eucalyptus gigantea** Dehnh., Jessievale, *D.F.O.*, 17266.

Eucalyptus globulus Lab., Woodbush, *Doidge*, 17753.

Genus dubium

Sacidium Gomphocarpi Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 20 ; Sacc. Syll. Fung. III : 651.

on **Asclepias fruticosa** Linn., Somerset East, *MacOwan 1434*, Type, Kew.

EXCIPULACEAE.

Hyalosporae.

Schizothyriella Eylesiana v. d. Byl

van der Byl (1928 b) 187 ; Hopkins (1938 a) 119 ; Nel (1942) 98.

on **Vangueria** sp., Salisbury, *Eyles 5282*, Type (v. d. Byl 2505).

Hyalophragmiae.

Oncospora bullata Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 19 ; Sacc. Syll. Fung. III : 691 ; Nel (1942) 98 ; Doidge (1948 a) 878.

Conidial form of *Bulgariastrum bullatum* (Kalchbr. & Cooke) Doidge.

on **Capparis citrifolia** Lam., Somerset East, *MacOwan 23*, Type ; Kaffraria, *MacOwan*, Kew ; Alexandria, Doidge, 22346 ; Knysna Heads, *Schonland*, 12512 ; Knysna, *Bottomley*, 32260, 32241, *Laughton*, 34302, 34311, 34314 ; The Wilderness, *Doidge*, 17122 ; Bonza Bay, *Bottomley*, 26680 ; Kingwilliamstown, *Weale* (ex Herb. McOwan) 20806 ; Port Alfred, *Wager*, 28827 ; Kowie, *Stent*, 7789 ; Grahamstown, *Hansford*, 33476 ; Kasouga River, *Archibald*, 33522 ; Bushman's River, *Archibald*, 33521.

Capparis Flanagani Gilg. & Ben., Boschberg, *MacOwan 1273 a*, 20982 ; Bushman's River, *Archibald*, 33523.

Capparis Gueinzii Sond., Uitenhage, *Pienaar*, 2362.

Capparis sp., Keurboom, *v. d. Byl 367*, *1360* ; Knysna, *Duthie* (v. d. Byl 61).

Oncospora viridans Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 20 ; Nannfeldt (1932) 86 : Doidge (1948 a) 876.

Sphaeropsis abnormis Berk. & Thuem., von Thuemen (1881) no. 1675.

Ephelis viridans (Kalchbr. & Cooke) Sacc. Syll. Fung. III : 691.

Sphaeropsis enormis Sacc. Syll. Fung. X : 254.

Conidial form of *Bulgariastrum africanum* Syd.

on **Capparis Rudatisii** Gilg. & Ben., Somerset East, *MacOwan 1273 b*, Type, 20814, Kew ; Uitenhage, *MacOwan* (Thuem. Myc. Univ. 1675) 21977 ; Alexandria, *Doidge*, 22373.

SCOLECOSPORAE.

Pilidium Eucleae (Kalchbr. & Cooke) Sacc.

Sacc. Syll. Fung. III : 689 ; Nel (1942) 98.
Protostegia Eucleae Kalchbrenner & Cooke (1880) 19.
Septoria Eucleae Kalchbr., in mss.

on **Euclea divinorum** Hiern., Cango Valley, *Doidge*, 10895 ; Maritzburg, *Bews*, 11028 ; Assegai Bush, *Doidge*, 17241 ; Diep Rivier, Knysna, *J. Phillips*, 20384 ; Blauwkrantz Valley, *Pentz*, 30925.

Euclea lanceolata E. Mey., Pretoria, *Pole Evans*, 11793, *Mogg*, 23634 ; Zilikats Nek, *Doidge*, 13088 ; Fairy Glen, *Doidge*, 23429 ; Waterkloof Ravine, *Mogg*, 23474 ; Hartebeestpoort, *Young*, 21020 ; Buffalo Bay, *J. Phillips* (v. d. Byl 2216) ; Waterkloof Ridge, *Talbot*, 35125.

Euclea natalensis A.DC., Xumeni Forest, *Morgan* & *Doidge*, 29834 ; Debbe's Ravine, *Reinecke*, 29877 ; Schagen, *Liebenberg*, 26578, 29909 ; Nelspruit, *Liebenberg*, 26039.

Euclea racemosa Murr., Alexandria, *Doidge*, 22431 ; Uitenhage, *Doidge*, 22409.

Euclea undulata A.DC., Boschberg, *MacOwan 1340, 1409* (Rabenh. Fung. Eur. 3989) 4329, 21966, 22032, Kew.

Euclea spp., Barberton, *v. d. Byl*, 5135 ; Knysna, *Bottomley*, 32124 ; Entabeni, *Laughton*, 33596 ; Piesanghoek, *Watson*, 35150.

MELANCONIALES.

MELANCONIACEAE.

HYALOSPORAE.

Colletotrichum Agaves Cav.

Doidge & Bottomley (1931) 56 ; Nel (1942) 99.

on **Agave sisalana** Perr., Winkle Spruit, *Gessner* (v. d. Byl 497) 9767, 31780 ; Durban, *v. d. Byl 197*.

Colletotrichum anonicola Speg.

Verwoerd (1929 b) 11 ; Doidge & Bottomley (1931) 22 ; Nel (1942) 99.

on **Annona reticulata** Linn., Stellenbosch, *Verwoerd* (Stell. 71 ; v. d. Byl 1178).
Annona chrysophylla Boj., Schagen, *Liebenberg*, 32906.

Colletotrichum Antirrhini Stew.

Wickens (1937) 690 ; Hopkins (1938 a) 118, (1939 a) 5.

? on **Antirrhinum Majus** Linn., Bulawayo (Rh. 3158).

Colletotrichum atramentarium (Berk. & Br.) Taubenh.

Doidge & Bottomley (1931) 52 ; Hopkins (1932) 464, (1938 a) 118, (1939 a) 43 ; Wickens (1937) 690.
Vermicularia varians Ducom., Doidge (1914) 879 ; Eyles (1936) 465.

on **Solanum Melangena** Linn. var. **esculentum** Nees, Rhodesia, *Wickens*.
Solanum tuberosum Linn., Pretoria, *Doidge*, 7730 ; Plettenberg Bay, *Derbyshire*, 14821 ; Sinoia, *Eyles ;* Salisbury (Rh. 2166, 3503) ; Trelawney (Rh. 3310).

Colletotrichum brachytrichum Del.

Verwoerd & du Plessis (1933) 223 ; Nel (1942) 99.

on **Theobroma Cacao** Linn., Univ. Bot. Gard., Stellenbosch, *du Plessis* (Stell. 636 ; v. d. Byl 2678).

Colletotrichum Camelliae Mass.

Hopkins (1938 a) 118, (1939 a) 45, (1943) 181.
on **Camellia japonica** Linn., Penhalonga (Rh. 3447).
Thea sinensis Linn., Chipinga (Rh. 518, 520).

Colletotrichum Carica Stev. & Hall

Doidge & Bottomley (1931) 23.
on **Ficus carica** Linn., fruit rot, Cape, Transvaal, Natal.

Colletotrichum cereale Manns

on **Lepturus cylindricus** Trin., Signal Hill, *Thompson*, 14675 a.
Lolium perenne Linn., Signal Hill, *Thomson*, 14675 b.

Colletotrichum circinans (Berk.) Vogl.

on **Allium Cepa** Linn., Natal, *Fuller*, 1972 ; Grootfontein, Cape, 2360 ; Oudtshoorn, *Pont*, 34172.

Colletotrichum coffeanum Noack

Hopkins (1932) 463.
sub *Glomerella cingulata* (Stonem.) Spauld. & v. Schrenk., Hopkins (1938 a) 101, (1939 a) 14.
on **Coffea** sp., Bindura (Rh. 1652) ; Chipinga (Rh. 2379).

Colletotrichum Dematium (Fr.) Grove

Vermicularia Dematium Fr., Kalchbrenner (1882 a) 146.
on **Allium Schoenoprasum** Linn., Somerset East, *MacOwan* (S.A.M. 35110).
Carex petitiana A. Rich., Somerset East, *MacOwan 1353*.
Lycopersicum esculentum Mill., Pretoria, *v. d. Merwe*, 34428.

Colletotrichum falcatum Went.

Stevenson & Rands (1938) 263 ; McMartin (1941) 587, (1943) 51.
on **Saccharum officinarum** Linn., Mt. Edgecombe, *McMartin*, 33572 ; Eshowe, *McMartin ;* Upper Tongaat, Tongaat, Powerscourt, Empangeni, *McMartin*.

Colletotrichum gloeosporioides Penz.

Burtt-Davy (1905) 286 ; Eyles (1926) 633 ; Doidge (1929 b) 324 ; Verwoerd (1929 b) 15, (1931 a) 301 ; Doidge & Bottomley (1931) 10, 27, 33, 39, 43 ; Doidge & van der Plank (1936) 17 ; Bates (1937 b) 189 ; Hopkins (1938 a) 118 ; Cardoso (1935) 184, (1937) 155, (1938) 75, (1939) 44, (1945) 151–153.
sub *Glomerella cingulata* (Stonem.) Spauld. & v. Schrenk, Hopkins (1939 a) 11, 12.
on **Citrus Limonia** Osbeck, fruit, twigs and leaves, Malagazi, *Wager*, 32713 ; Tshokwane, *Liebenberg*, 30961 ; Citrusdal, Verwoerd (Stell. 386) ; Salisbury, Hopkins (Rh. 174) Kew ; Trelawney, Mazoe, *Hopkins ;* Rhodesia, *Pallister*, 12495 ; Umbeluzi, *Cardoso*.
Citrus maxima Merr., twigs and fruit, Acornhoek, *Campbell*, 17049 ; Mazoe, Rusapi, *Hopkins ;* Magude, *Cardoso*.
Citrus nobilis Leur. var. **deliciosa** Sw., Town Bush Valley, *Kent*, 24888 ; Wellington, *du Plessis* (Stell. 594) ; Salisbury, *Hopkins* (Rh. 54, 1537) ; Xinavane, *Cardoso ;* Quelimane, *Guimarães*.

on **Citrus sinensis** Osbeck, fruit and twigs, Clumber, *Long*, 19861 ; Somerset East, Brown 11805 ; Weenen, *Williams*, 8403 ; Johannesburg, *Greathead*, 7347 ; Premier Mine, *Dickson*, 15665 ; Wolhuter's Kop, 1462 ; de Kroon, *Doidge*, 17023 ; Rustenburg, *Johnson*, 8942 ; Nelspruit, *Hall*, 6675, *Esselen*, 24887 ; White River, *Brembridge*, 24336 ; Acornhoek, *Lawton*, 20380 ; Athol, *Forbes*, 441 ; Piet Retief, *Hansen*, 317 ; Pienaar's Poort, *Pearse*, 11233 ; Vredefort, *Caldecott*, 7348 ; Pretoria, 189 ; Umtali, Salisbury, Mazoe, *Eyles* ; Mazoe, *Bates* ; general in Southern Rhodesia, *Hopkins* ; Manhiça, *Howard*, 489 ; Umtali, *Baker*, 7399 ; Magude, *Cardoso* ; Lourenço Marques, *de Sousa* Quelimane, *Guimarāis*.
on **Citrus** spp., Lourenço Marques, *de Sousa*, *Frias* Umbeluzi, *Cardoso* Magude, *Cardoso* ; Xinavane, *Cardoso*.
isolated from
Mangifera indica Linn., surface of leaf, Mazoe, *Bates 343 a*, 34004.
on **Persea americana** Mill., Pinetown, *Cockerton*, 26603 ; Nelspruit, *Hall*, 25371 ; Godwan River, *Murray*, 28267 ; Alkmaar, *Blatt*, 30934 ; Capetown market, *Verwoerd*.

Colletotrichum Glycines Hori

sub *Glomerella Glycines* (Hori) Lehm. & Wolf, Bottomley (1932) 107.
on **Glycine Max** Merr., Cedara, *Staples*, 24341.
Melilotus alba Desr., Groenkloof, *du Preez*, 27594.

Colletotrichum Gossypii South.,

Eyles (1924) 593, (1926) 637 ; Verwoerd (1929 b) 11.
sub *Glomerella Gossypii* (South.) Edgert., Hopkins (1930) 523 ; Doidge & Bottomley (1931) 20 ; Cardoso (1937) 152, (1938) 76, (1939) 44.
on **Gossypium** spp., Pretoria, *Burtt Davy*, 174 ; Maritzburg, *Doidge*, 853 ; Louis Trichardt, *Hennings* ; Magut, *Parsons* ; Stellenbosch, *Verwoerd* (Stell. 236) ; Lourenço Marques, *J. A. Evans ;* Bulawayo, Rusapi, *Eyles, Hopkins ;* Sul do Save, *Cardoso*.

Colletotrichum graminicolum (West.) Wilson

Hopkins (1939 a) 50.
on **Sorghum halepense** Pers., Wonderboom, *Pole Evans*, 1520.
Sorghum sudanense Stapf, Rhodesia, *Mundy*, Kew.
Zea Mays Linn., Mazoe, *Hopkins*.

Colletotrichum Kickxiae Verw. & du Pless.

Verwoerd & du Plessis (1933) 223 ; Nel (1942) 99.
on **Funtumia elastica** Stapf, Univ. Bot. Gard., Stellenbosch, *du Plessis*, Type (Stell. 609 ; v. d. Byl 2679).

Colletotrichum lagenarium (Pass.) Ell. & Halst.

Pole Evans (1907 f) 681 ; Eyles (1926) 638 ; Verwoerd (1929 b) 88 ; Doidge & Bottomley (1931) 21, 66 ; Hopkins (1938 a) 118, (1939 a) 15.
Gloeosporium lagenarium Pass., Nel (1942) 99.
on **Citrullus vulgaris** Schrad., Skinner's Court, *Stent*, 233 ; Ermelo, *Brink* (v. d. Byl 1328) ; Koffiefontein, *Blakeney*, 27380.
Cucumis sativus Linn., Pretoria, *Doidge*, 24912 ; Stellenbosch, *Verwoerd ;* Charter, *Eyles ;* Salisbury (Rh. 2061) ; Cavendish, *Wager*.
Cucurbita Pepo Linn., Buffelspoort, *Doidge*, 30760.

Colletotrichum lindemuthianum (Sacc. & Magn.) Bri. & Cav.

Pole Evans (1906 a) 134 ; Verwoerd (1929 b) 8, (1931 a) 301 ; Doidge & Bottomley (1931) 25 ; Hopkins (1932) 464, (1938 a) 118, (1939 a) 7, 32, 47 ; Cardoso (1937) 156, (1939) 45, (1945) 156.

sub *Glomerella lindemuthianum* (Sacc. & Magn.) Shear, Doidge & Bottomley (1931) 21.

on **Brachystegia Randii** Bak. f., Salisbury (Rh. 2079).
Crotalaria juncea Linn., Glendale (Rh. 360) ; Salisbury (Rh. 1282).
Phaseolus coccineus Linn., common and widespread.
Phaseolus vulgaris Linn., Pretoria, 735 ; Barberton, 90 ; Piesanghoek, *Watson*, 25443 ; Nelspruit, *Wilhelm*, 10719 ; Durban, *McClean*, 24884 ; Oudtshoorn, George, *Verwoerd ;* Bloemfontein, *Verwoerd ;* Salisbury (Rh. 234, 745) ; Umvukwes (Rh. 737) ; Umtali (Rh. 3455) ; Lourenço Marques, *Hardenberg*, 17270 ; Umbelusi, *Guimarães ;* Manhiça, *Mota*.
Vigna unguiculata (L.) Walp., Cedara, *Staples* 15431, 15437 ; Salisbury (Rh. 1986).

Colletotrichum malvarum Braun & Casp.

Hopkins (1938 a) 118, (1939 a) 4.

on **Althaea rosea** Cav., Salisbury (Rh. 492, 556).

Colletotrichum nigrum Ell. & Halst.

Cardoso (1945) 156.

on **Capsicum frutescens** Linn., Lourenço Marques, *Nascimento*.

Colletotrichum omnivorum Halst.

Eyles (1926) 632 ; Hopkins (1930) 415.

on **Desmodium spirale** DC., stems, Salisbury, *Eyles*.

Colletotrichum Orchidearum Allesch.

Verwoerd & du Plessis (1933) 224 ; Nel (1942) 99.

on **Bifrenaria Harrisoniae** Reichb., in greenhouse, Stellenbosch, *du Plessis* (Stell. 653).
Catasetum macrocarpum Rich., in greenhouse, Stellenbosch, *du Plessis* (Stell. 661).
Catasetum maculatum Kunth., in greenhouse, Stellenbosch, *du Plessis* (Stell. 607).
Cattleya Alfredi Hort., in greenhouse, Stellenbosch, *du Plessis* (Stell. 643).
Cattleya Imperatrix Hort., in greenhouse, Stellenbosch, *du Plessis* (Stell. 641).
Cattleya Rembrandt Hort., in greenhouse, Stellenbosch, *du Plessis* (Stell. 645).
Cattleya Suzanne Hort., in greenhouse, Stellenbosch, *du Plessis* (Stell. 642).
Cattleya Thayeriana Hort., in greenhouse, Stellenbosch, *du Plessis* (Stell. 644).
Cattleya sp., in greenhouse, Stellenbosch, *du Plessis* (v. d. Byl 2681).
Cyrtopodium punctatum Tinal, in greenhouse, Stellenbosch, *du Plessis* (Stell. 647).
Ornithidium densum Reichb., in greenhouse, Stellenbosch, *du Plessis* (Stell. 634).

Colletotrichum Papayae (P. Henn.) Syd.

Gloeosporium Papayae P. Henn., Eyles (1926) 645 ; Doidge & Bottomley (1931) 46 ; Hopkins (1938 a) 119, (1939 a) 9 ; Nel (1942) 99.

on **Carica Papaya** Linn., stems, petioles, fruit, Hillarys, *Doidge*, 1910 ; East London, *Slemert*, 23400 ; Malelane, *Atmore*, 23677 ; *Wager*, 23678 ; Buffelspoort, *Doidge*, 23505, 23679, *Bottomley*, 25455, 25940, 25941 ; Pretoria, *Marais*, 30648 ; Durban, *v. d. Byl 216 ;* Winkle Spruit, *v. d. Byl 487*, 31776 ; Salisbury, *Eyles ;* Gwelo, Essexvale, Salisbury, Mazoe, Rusapi, *Hopkins*.

Colletotrichum phomoides (Sacc.) Chester

Doidge & Bottomley (1931) 63 ; Hopkins (1938 a) 118, (1939 a) 25 ; Cardoso (1939) 45, (1945) 157.

on **Lycopersicum esculentum** Mill., fruit, Barberton, *Doidge*, 15510 ; Salisbury, (Rh. 1833, 3760) ; Chester, *Hopkins ;* Umbeluzi, *Guimarāis ;* Mazoe, *Bates*, (in culture) 34005.

Colletotrichum Pterocelastri Wakef.

Wakefield (1922) 165 ; van der Byl (1925 b) 196 ; Nel (1942) 99.

on **Pterocelastrus tricuspidatus** Sond., Knysna, *v. d. Byl 404*, Type, Kew.

Colletotrichum rhodocyclum (Mont.) Petrak

see *Glomerella phacidiomorpha* (Ces.) Petrak

Colletotrichum Trifolii Bain & Essary

Doidge & Bottomley (1931) 35.

on **Medicago sativa** Linn., Wonderboom, *Pole Evans*, 1300 ; Pretoria, *Bottomley*, 20442 ; Potchefstroom, *Holmes Smith*, 9426 ; Kirkwood, 15454.

Colletotrichum sp.

sub *Colletotrichum atramentarium* (Berk. & Br.) Taubenh., Hopkins (1938 a) 118, (1939 a) 16.

on **Cyamopsis psoralioides** DC., Glendale (Rh. 1250).
Desmodium leiocarpum G. Don., Rhodesia, *Hopkins*.

Colletotrichum sp.

Hopkins (1932) 466.

on **Hydrangea opuloides** Koch, Rhodesia, *Hopkins*.

Gloeosporium affine Sacc.

Verwoerd & du Plessis (1933) 225.

on **Coelogyne cristata** Lindl., Univ. Bot. Gard., Stellenbosch, *du Plessis* (Stell. 640).
Gongora galeata Reichb., Univ. Bot. Gard., Stellenbosch, *du Plessis* (Stell. 611).

Gloeosporium amygdalinum Brizi

Doidge (1924 b) 2 ; Dippenaar (1931 b) 267 ; Verwoerd (1929 b) 267 ; Doidge & Bottomley (1931) 4.

on **Prunus communis** Fritsch, Groot Drakenstein, *Doidge*, *Verwoerd* and *Baker*, 9301 ; Stellenbosch, Paarl, Wellington, Tulbagh, Malmesbury, Piquetberg, Elgin, *Dippenaar*.

Gloeosporium cocophilum Wakef.

on **Cocos nucifera** Linn., fruit, Inhaca Is., *Mogg*, 34155.

Gloeosporium crocatum Sacc.

on **Euphorbia triangularis** Desf., Amanzimtoti, *Doidge*, 1655 ; nr. Grahamstown, *R. A. Dyer*, 23616.

Gloeosporium epicarpii Thuem.

Doidge & Bottomley (1931) 65.

on **Juglans regia** Linn., Natal and Cape ; Zeerust and Pietersburg ; Toise River, 709 ; Kuilfontein, Zeerust Distr., *Pringle*, 28795.

Gloeosporium fructigenum Berk.

Pole Evans (1906 a) 132 ; Doidge & Bottomley (1931) 6 ; Lounsbury (1910) 355.
? *Gloeosporium Cydoniae* Mont., von Thuemen (1878) 357.
sub *Glomerella cingulata* (Stonem.) Spauld. & v. Schrenk, Hopkins (1938 a) 101, (1939 a) 19, 35, 36, 37, 42.
on **Cydonia oblonga** Mill., nr. Somerset East, *MacOwan ;* Makoni, Inyanga, *Hopkins.*
Eriobotrya japonica Lindl., Hunter's Road (Rh. 1156) ; Salisbury, *Hopkins.*
Punica granatum Linn., Cape Town, *Davis*, 33264 ; Mazoe, *Hopkins* (Rh. 4905).
Prunus salicina Lindl., Salisbury, *Hopkins.*
Pyrus communis Linn., Pretoria, *Doidge & Bottomley ;* Inyanga, *Hopkins* (Rh. 3748).
Pyrus malus Linn., Clumber, *Hulley*, 2548 ; Bedford, 6585 ; Kingwilliamstown, *Kelly*, 9532 ; Umtata, *Hart*, 12309 ; Long Kloof, Honeykloof, George, *Lounsbury ;* Mountain Rise, *Doidge*, 880 ; Maritzburg, *J. M. Sim*, 8869 ; Town Bush Valley, *Hodgson*, 17193 ; Pretoria North, *Maynard*, 15526 ; Johannesburg, *Rocher*, 21931 ; Haenertsburg, 1244 and *Long*, 29961 ; Elim, 33119 ; Salisbury, *Hopkins* (Rh. 112, 834) ; Zimbabwe (Rh. 196, 244) ; Umtali (Rh. 886, 1202) ; Arcturus (Rh. 3473) ; Cashel, M'Soneddi, *Hopkins.*
Rubus rigidus Sm., East London, *Flement*, 26091.
Solanum incanum Linn., Trelawney, *Hopkins.*
Solanum melangena Linn. var. **esculentum** Nees, Trelawney, *Hopkins.*

Gloeosporium Helichrysi Wint.

Winter (1885 b) 34 ; Sacc. Syll. Fung. X : 459.
on **Helichrysum coriaceum** Sond., Tarlton, *Liebenberg*, 29896.
Helichrysum setosum Haw., Fairy Glen, *Doidge*, 23619.
Helichrysum undatum Less., Kokstad, *Mogg*, 12459.
Helichrysum spp., Somerset East, *MacOwan ;* Garstfontein, *Doidge*, 1417.

Gloeosporium limetticolum Claus.

Cardoso (1937) 155, (1938) 75, (1939) 44.
on **Citrus Limonia** Osbeck., Sul do Save, *Cardoso ;* Umbeluzi, *Cardoso.*

Gloeosporium Mangiferae P. Henn.

Hopkins (1938 a) 119, (1939 a) 25.
sub *Colletotrichum gloeosporioides* Penz., Doidge & Bottomley (1931) 37 ; Cardoso (1937) 155, (1938) 75, (1939) 44.
on **Mangifera indica** Linn., Malvern, 1942 ; Chase Valley, *Wager*, 32459 ; Cavendish, Durban, *Wager ;* Nelspruit, *Bester*, 26661, 26662, *Hall*, 8898, *Wager*, 26664 ; Pretoria, *Pole Evans*, 1000 ; Lourenço Marques, 15536 and *da Silva ;* Sul do Save, *Cardoso ;* Nahotas, *Cardoso ;* Umbeluzi, *Guimarães ;* Moçambique (Rh. 2356) ; Umtali (Rh. 2945).

Gloeosporium Musarum Cooke & Mass.

Pole Evans (1906 a) 133 ; Verwoerd (1929 b) 7 ; Doidge & Bottomley (1931) 11 ; Hopkins (1938 a) 119, (1939 a) 26 ; Cardoso (1939) 44.
sub *Glomerella cingulata* (Stonem.) Spauld. & v. Schrenk, Hopkins (1943) 187.
on **Musa Cavendishii** Lamb., common on the Natal coast.
Musa paradisiaca Linn. var. **sapientum** Ktze., Moçambique, *Cardoso ;* Umtali (Rh. 2211) ; Goromonzi (Rh. 2444) ; Mazoe, Salisbury, Umtali, *Hopkins ;* East London, *MacOwan*, Kew ; common on the Natal coast ; Klein Brak, Cape Town, Stellenbosch, on fruit exposed for sale, *Verwoerd ;* Mazoe, *Bates 291* (in culture) 34009 ; Manhiça, *Guimarães.*

Gloeosporium Myricae Dipp.

Dippenaar (1931 c) 284 ; Nel (1942) 99.
on **Myrica cordifolia** Linn., Wemmershoek Siding, Dippenaar, Type (v. d. Byl 2611) ; French Hoek, *Dippenaar* (Stell. 412, 925).

Gloeosporium olivarum Alm.

on **Olea europaea** Linn., Stellenbosch, *Dippenaar*, 33360.

Gloeosporium Passiflorae Speg.

sub *Glomerella cingulata* (Stonem.) Spauld. & v. Schrenk, Hopkins (1938 a) 119, (1939 a) 31, (1939 c) 592, (1942) 187.
on **Passiflora edulis** Sims, White River, *Esselen*, 24910 ; Vryheid, *Wager*, 32717 ; Amandas (Rh. 2174) ; Salisbury (Rh. 3711).

Gloeosporium Psidii Del.

Glomerella Psidii (Del.) Sheld., Eyles (1926) 641 ; Hopkins (1930) 526.
sub *Glomerella cingulata* (Stonem.) Spauld. & v. Schrenk, Hopkins (1938 a) 101, (1939 a) 36.
on **Psidium Guajava** Linn., Shamva and Mazoe, *Eyles ;* Salisbury (Rh. 956) ; Mataffin, *Hall*, 34089.

Gloeosporium Ptychospermatis P. Henn.

Verwoerd & du Plessis (1933) 226.
on **Kentia** sp., Stellenbosch, *Verwoerd* (Stell. 397) ; ? Uitenhage, *Smith*, 26411.

Gloeosporium Sansevieriae Verw. & du Pless.

Verwoerd & du Plessis (1931) 291.
on **Sansevieria zeylanica** Willd., Univ. Bot. Gard., Stellenbosch, *Verwoerd* (Stell. 427), Type.

Gloeosporium Sclerocaryae Pole Evans

nom. nud., Doidge & Bottomley (1931) 38.
on **Sclerocarya caffra** Sond., on fruit, Warmbaths, *Doidge*, 911 ; Zoutpansberg, *Thomsen*, 18056.

Gloeosporium venetum Speg.

Hopkins (1939 a) 622.
sub *Plectodiscella veneta* Burkh., Hopkins (1939 a) 41.
on **Rubus loganobaccus** Bailey, Umtali and Inyanga, *Hopkins*.
Rubus spp., Gonubie, *Flement*, 26092 ; S. Rhodesia, *Hopkins*.

Gloeosporium sp.

Bottomley (1915) 371–374.
on **Schinus molle** Linn., Maritzburg, *Schmutz*, 8288 ; Grahamstown, *Haines*, 13024.

Myxosporium corticola Edgert.

Doidge & Bottomley (1931) 8.
on **Pyrus malus** Linn., on twigs, Natal and Transvaal.

Vermicularia Capsici Syd.

on **Phaseolus acutifolius** Gray var. **latifolius** Freem, Immerpan, *P. v. Zyl*, 25365.

Vermicularia herbarum West. f. **Dianthi** West.

Vermicularia Dianthi West., Kalchbrenner & Cooke (1880) 19; Kalchbrenner (1882 a) 146.
Vermicularia herbarum West., Sacc. Syll. Fung. III : 226.
on **Dianthus** sp., Somerset East, *MacOwan 1435*, Kew.

PHAEOSPORAE.

Melanconium Fourcroyae Syd.

H. & P. Sydow (1912 c) 443 ; Sacc. Syll. Fung. XXV : 580.
on **Furcraea gigantea** Vent., Durban, *Doidge*, 2157, Type.

Melanconium Sacchari Mass.

van der Byl (1921 h) 125 ; McMartin (1937 b), (1937 a) 126, (1938) 215 ; Stevenson & Rands (1938) 281 ; Nel (1942) 99.
on **Saccharum officinarum** Linn. Durban, *Smith*, 7357, *McClean*, 23084 ; Mount Edgecombe, *McMartin*, 33573 ; Durban (Stell. 327) ; Natal Coast, *v. d. Byl 549.*

Stichospora disciformis Petrak

Petrak (1927) 195.
on **Myrica conifera** Burm. f., Krantzkloof, *v. d. Byl 8396*, Type.
Conidial form of *Stichodothis disciformis* (Wint.) Petrak.

HYALODIDYMAE.

Actinonema Rosae (Lib.) Fr.

Pole Evans (1906 a) 141 ; Verwoerd (1929 b) 25, (1931 a) 300 ; van der Byl (1922 d) 287. Doidge & Bottomley (1931) 55 ; Cardoso (1939) 45, (1945) 162.
Diplocarpon Rosae Wolf, Hopkins (1938 a) 103, (1939 a) 41 ; Cardoso (1938) 76.
on **Rosa** spp., Pretoria, *Pole Evans*, 140, *Gower*, 17092, *Hean*, 30637, *Mogg*, 31289, 32384 ; Standerton, *Wahl*, 23698 ; Phoenix, *Wager*, 33201 ; Kentani, *Pegler 2376*, 9309, Kew, *Pegler 2403*, 9741 ; Steynsburg, 28520 ; Bloemfontein, *Potts*, 9754 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell. 96), *Dippenaar* (Stell. 858, 859), *v. d. Byl ;* Newlands, Paarl, Wellington, *Verwoerd ;* Malagazi, Isipingo Valley, Umtentwini, Verulam, *Wager ;* Lourenço Marques, *Mota ;* Manhiça, *Guimarãis ;* Salisbury, Umtali, Stapleford, *Hopkins* (Rh. 221) Kew.

Marssonina Fragariae (Sacc.) Kleb.

on **Fragaria** sp., Boksburg, *Sanders*, 33433.

Marssonina Juglandis (Lib.) Magn.

Doidge & Bottomley (1931) 66.
? as *Cercospora Juglandis* Kellerm. & Swing., Doidge & Bottomley (1931) 66.
on **Juglans** sp., Haenertsburg, *Bester*, 28609 ; Natal and Transvaal, *Doidge & Bottomley.*

Marssonina Populi Magn.

sub *Marssonia Castagnei* (Desm. & Mont.) Sacc., Verwoerd (1929 b) 23 ; Doidge & Bottomley (1931) 51.

as *Marsonia Populi*, Nel (1942) 99.

on **Populus alba** Linn., Claremont, 606 ; Woodbush, *D.F.O.*, 7103.

Populus canescens Sm., Oudtshoorn, *Verwoerd* (Stell. 221).

Populus spp., Claremont, Wynberg, Ladismith, *Verwoerd ;* Stellenbosch, *Verwoerd* (v. d. Byl 1048) ; fairly common in Natal and the south-western Cape, *Doidge & Bottomley*.

Marssonina sp.

on **Terminalia sericea** Burch., Schagen, *Liebenberg*, 32822.

PHAEODIDYMAE.

Didymosporina africana Syd.

H. Sydow (1924 c) 433 ; Nel (1942) 99.

on **Rhus viminalis** Vahl., Genadendal, *Verwoerd* (v. d. Byl 1299) Type.

Didymosporium congestum Syd.

H. & P. Sydow (1912 a) 45 ; Sacc. Syll. Fung. XXV : 585 ; Doidge & Bottomley (1931) 53.

on **Protea caffra** Meisn., Diepkloof, *Doidge*, 930, Type ; Commando Nek, *Pole Evans*, 12453 ; Pretoria, *Mogg*, 23486 ; White Heather Mine, *K. M. Putterill*, 32756.

Didymosporium latum Syd.

H. & P. Sydow (1912 a) 44 ; Sacc. Syll. Fung. XXV : 585.

on **Faurea saligna** Harv., Transvaal, *Thomsen*, 743, Type ; Conradie's Kloof, *Wager*, 32409.

Neobarclaya congesta (Berk. & Br.) Petch

Laughton (1948) 831.

Neobarclaya natalensis Syd., P. Sydow (1899 a) (134) ; Medley Wood (1898) 12 ; Sacc. Syll. Fung. XVI : 1012.

Pestalozzia Evansii P. Hennings (1908) 273.

on **Syzygium cordatum** Hochst., Durban, *Medley Wood*, 6446, 374, 9476 ; Nelspruit, *Pole Evans*, 11024 ; Eshowe, *McClean*, 33092 ; Barberton, *Pole Evans*, 234, 1152, *Doidge*, 2009.

HYALOPHRAGMIAE.

Entomosporium maculatum Lév.

Lounsbury (1908) 26 ; Doidge (1911) 694 ; Verwoerd (1929 b) 24 ; Doidge & Bottomley (1931) 35, 54.

sub *Fabraea maculata* Atk., Verwoerd (1929 b) 21 ; Doidge & Bottomley (1931) 49, 54, 35 ; Hopkins (1938 a) 104, (1939 a) 37.

on **Cydonia oblonga** Mill., Pretoria 455, *Bottomley*, 22838, *Reinecke*, 23187 ; Magaliesberg, 25918 ; Engelbrechtsdrift, *Engelbrecht*, 27289 ; Johannesburg, *Godlonton*, 24920 ; Rosettenville, *Macfie*, 17074 ; Klip River, *Hodgson*, 1081 ; Volksrust, 391 ; Nelspruit, *v. Elden*, 26103 ; Potgietersrust, *de Villiers*, 32493 ; Haenertsburg, *Naudé*, 29962 ; Brandfort, *Verwoerd* (Stell. 307) ; Cape, *Lounsbury ;* Stellenbosch, *Dippenaar* (Stell. 521, 865) ; Niet-voor-by, Stellenbosch, *v. d. Byl 2202 ;* Salisbury (Rh. 2504) ; Umtali, *Eyles 4279 ;* Macheke (Rh. 3145).

Eriobotrya japonica Lindl., Pretoria, 1526, 6897 ; Newlands, *Lounsbury*, 453 ; Cape, without locality, 925 ; Stellenbosch, *du Plessis* (Stell. 545) ; Allerton, *Pole Evans*, 5611.

Pyrus communis Linn., Pretoria, *Pole Evans*, 255, 401, *v. d. Byl*, 2323 ; Kokstad, *Paine*, 32001 ; Klein Brak, *Verwoerd ;* Umtali, *Eyles 4280 ;* Stellenbosch, *Dippenaar* (Stell. 522, 866) ; Bethlehem, *v. d. Merwe*, 24949.

Pseudodiscosia Dianthi Höst. & Laub.

on **Dianthus caryophyllus** Linn., Duivelskloof, *Graham*, 25353, 25354.

Septogloeum Acaciae Verw. & du Pless.

Verwoerd & du Plessis (1931) 295, not Sydow.

on **Acacia litakunensis** Bursh, Pretoria, *Verwoerd* (Stell. 293, v. d. Byl 293) 33263.

Septogloeum bullatum Syd.

H. & P. Sydow (1912 a) 44 ; van der Byl (1926 c) 289 ; Sacc. Syll. Fung. XXV : 591.

on **Combretum gazense** Swynn. & Bak., Ledzee, *Doidge*, 1811 ; Letaba, *Liebenberg*, 32733.

Combretum glomeruliferum Sond., Wonderboom, *v. d. Byl*, 2217 ; Donkerpoort, *Bottomley*, 33921.

Septogloeum concentricum Syd.

on **Sanseviera** sp., Kentani, *Pegler 2383*, 9421.

Septogloeum Manihotis Zimm.

Cardoso (1939) 45.

on **Manihot utilissima** Pohl., Moçambique, *Cardoso*.

Septogloeum Mori (Lév.) Bri. & Cav.

Van der Byl (1922 d) 287 ; Verwoerd (1929 b) 17, (1931 a) 301 ; Doidge & Bottomley (1931) 38.

on **Morus alba** Linn., Kingwilliamstown, *Lounsbury*, 198 ; Amanzi, 20315 ; Maseru, *Wacher*, 23195 ; Christiana, *Maartens*, 24944 ; Kimberley, *Store*, 25921.

Morus nigra Linn., Pretoria, *Botha-Reed*, 26108 ; Stellenbosch, *Verwoerd ;* Bloemfontein, *Verwoerd ;* Tulbagh, *Dippenaar* (v. d. Byl 2429).

Morus spp., Pretoria, 685 ; Klip River, *Hodgson*, 1082 ; Moorddrift, *Smit*, 33375 ; Potgietersrust, *Maguire*, 28738 ; Amsterdam, *Naudé*, 31082 ; Nelspruit, *v. Wyk*, 27364 ; Versfeld, 49 ; Jansenville, *McLaughlin*, 29838 ; Kimberley, *Havenga*, 25358 ; Sebalabala, *Hean*, 32143 ; Klapmuts, *v. d. Byl 644 ;* Stellenbosch, *Eyles* (v. d. Byl 1323), *Verwoerd* (Stell. 19) ; Somerset West, *Dippenaar* (Stell. 1065) ; Durban, *v. d. Byl 218*, 31935.

Septogloeum punctatum Wakef.

Wakefield (1931) 204 ; Nel (1942) 100.

on **Syzygium cordatum** Hochst., Durban, *v. d. Byl 323*, Type, Kew.

PHAEOPHRAGMIAE.

Coryneum Cocoes P. Henn.

Cardoso (1945) 159.

on **Cocos nucifera** Linn., on leaves, Zambesi region (det. S. da Camara).

Coryneum Dovyalidis v. d. Byl

van der Byl (1929 a) 318 ; Hopkins (1938 a) 119, (1939 a) 18 ; Nel (1942) 99.
on **Dovyalis** sp., Salisbury, *Eyles 5283* (Rh. 2060 ; v. d. Byl 2517, 2518) Type ; Marandellas, *Green* (Stell. 328).

Coryneum Kunzei Corda

conidial form of *Pseudovalsa longipes* (Tul.) Sacc., q.v.

Cryptostictis Dryopteris Verw. & du Pless.

Verwoerd & du Plessis (1931) 290.
on **Dryopteris** sp., Stellenbosch, *du Plessis* (Stell. 476) Type.

Monochaetia Camelliae Miles

Pestalozzia Camelliae Pass., Nel (1942) 100.
on **Camellia japonica** Linn., Paarl, *du Plessis* (Stell. 618 ; v. d. Byl 2704).

Monochaetia Cydoniae Pole Evans & Doidge

Kew Bull. (1908) 428 ; Sacc. Syll. Fung. XXV : 610.
on **Cydonia oblonga** Mill., twigs, Pretoria, *Pole Evans*, Kew, Type.

Pestalotia Aloës Trinch.

du Plessis (1933 f) 209 ; Laughton (1948) 822.
on **Aloe** spp., Stellenbosch, *du Plessis* (Stell. 813), *Dippenaar* (Stell. 900).

Pestalotia Burchelliae Laughton

Laughton (1948) 821.
on **Burchellia bubalina** (Linn. f.) Sims, leaves, Garden of Eden, Knysna, *F. S. Laughton*, 34912, Type ; Town Hill, Knysna, *Laughton*, 34908.

Pestalotia caffra Syd.

H. & P. Sydow (1914 b) 266 ; Sacc. Syll. Fung. XXV : 606 ; Guba (1932) 362 ; Laughton (1948) 822.
on **Mimusops caffra** E. Mey., leaves, Isipingo, *Doidge*, 6630, Type.

Pestalotia Cassinis Laughton

Laughton (1948) 822.
on **Cassine sphaerophylla** O. Ktze., Brenton, Knysna, *Laughton*, 34916, Type ; Buffalo Bay forest, *Laughton*, 34914.
Pterocelastrus tricuspidatus Sond., Knysna, *Laughton*, 34915.

Pestalotia disseminata Thuem.

Laughton (1948) 823.
on **Eucalyptus diversicolor** F. Muell., on stems, Kruisfontein, *Laughton*, 34911.
Eucalyptus Lehmanni Preiss., leaves, Fort Cunnynghame, *D.F.O.*, 23701.
Eucalyptus sp., Storms River, *D.F.O.*, 11288.

Pestalotia Encephalartos Laughton

Laughton (1948) 823.

on **Encephalartos villosus** (Gaertn.) Lem., living and dead leaflets, Durban, *Pole Evans*, 2031, Type ; Malvern, 861.

Stangeria eriopus Nash, Mountain Rise, *Doidge*, 864.

Pestalotia funerea Desm.

Fisher (1912) 390 ; Eyles (1926) 632 ; Doidge & Bottomley (1931) 9, 22, 50 ; Hopkins (1938 a) 119, (1939 a) 16 ; Verwoerd (1931 a) 301 ; Laughton (1948) 823.

on **Cedrus Deodara** Loud., Cedara, 5172.

Chamaecyparis Lawsoniana Parl., Cedara, *Fisher*.

Cupressus arizonica Greene, Ermelo, *D.F.O.*, 28790.

Cupressus lusitanica Mill., Cedara, *Fisher*.

Cupressus torulosa Don., Estcourt, *Errleben*, 28535.

Juniperus virginiana L., Cedara, 2246.

Juniperus sp., Richmond, *Gordon*, 29920.

Pinus halepensis Mill., without locality, 23216 ; Fort Cununghame, 700.

Pinus spp., Bloemfontein, *Verwoerd ;* Cedara, *Fisher*.

Widdringtonia sp., Marandellas, *Eyles*.

Pestalotia Gossypii Hori

Laughton (1948) 824.

(?) on **Gossypium** sp., Mbabane, *G.V.O.*, 14646.

Pestalotia Guepini Desm.

Hopkins (1938 a) 119, (1939 a) 34 ; Laughton (1948) 824.

on **Camellia japonica** L., Stellenbosch, *Dippenaar*, (Stell. 932, 933) ; Paarl *du Plessis* (Stell. 618) 34585.

Pittosporum undulatum Vent., Salisbury (Rh. 1500, 1591).

Pestalotia Laughtonae Doidge

in Laughton (1948) 824.

on **Cassine sphaerophylla** O. Ktze., Brenton, Knysna, *Laughton*, 35145, Type.

Pterocelastrus tricuspidatus Sond., Knysna, *Laughton*, 35416.

Pestalotia Laurophylli Laughton

Laughton (1948) 824.

on **Laurophyllus capensis** Thunb., living leaves, Garden of Eden, Knysna, *Laughton*, 34913.

Pestalotia macrochaeta (Speg.) Guba

Laughton (1948) 825.

sub *Pestalozzia funerea* Desm., Fisher (1912) 390.

on **Pinus caribaea** Morelet, Dukuduku, *D.F.O.*, 27660.

Pinus patula Schiede, Spitzkop, Cape, *D.F.O.*, 30447, 32073.

Pinus pinaster Ait., Cedara, *Fisher*, 2100.

Pinus radiata Don., Zwartkop, *Hayter*, 7767.

Pinus spp., Komgha, *Crewe*, 27812 ; Maritzburg, *Kelly*, 11868.

Pestalotia Mangiferae P. Henn.

Laughton (1948) 825.
Pestalozzia virgatula Kleb., Hopkins (1938 a) 119 ; (1939 a) 25 ; (1943) 186.
on **Mangifera indica** Linn., Bindura (Rh. 1025) ; Barberton, *Harris & Todd*, 1911.

Pestalotia Micheneri Guba

Laughton (1948) 825.
on **Araucaria Cunninghamii** Sweet, Eshowe, *D.F.O.*, 15461.

Pestalotia Milletiae Laughton

Laughton (1948) 825.
on **Milletia** ? **Sutherlandi** Harv., living leaflets, Eshowe, *Laughton*, 33437, Type.

Pestalotia neglecta Thuem.

Laughton (1948) 826.
on **Euonymus japonica** Linn., f., living leaves, Johannesburg, *Walter Webber*, 34922.

Pestalotia Ocoteae Laughton

Laughton (1948) 826.
as *Pestalotia* sp., J. Phillips (1934) 289, (1931) 160.
on **Ocotea bullata** E. Mey., immature fruits, Deepwalls, *J. Phillips*, 17824, Type.

Pestalotia palmarum Cooke

Pole Evans (1914) 154; United States Dept. Agric. (1932) 354; Cardoso (1945) 159; Laughton (1948) 827.
on **Cocos nucifera** Linn., Lourenço Marques, *Hardenburg*, 22559; Zambesi Region, (det. S. da Camara) ; Inhaca Is., *Mogg*, 34145 ; Quelimane, *Pole Evans, Guimarães*.
Phoenix reclinata Jacq., Lourenço Marques, 487 ; intercepted in United States on material from South Africa.

Pestalotia Pelargonii Laughton

Laughton (1948) 827.
on **Pelargonium cordatum** L'Herit., Garden of Eden, Knysna, *Laughton*, 34918, Type.

Pestalotia peregrina Ell. & Mart.

on **Pinus longifolia** Roxb., Xumeni, D.F.O., 25914.
Pinus sp., Maritzburg, D.F.O., 30847.

Pestalotia Podocarpi Laughton

Laughton (1948) 827.
on **Podocarpus latifolius** R. Br., on living leaves, Garden of Eden, Knysna, *Laughton*, 34917, Type.

Pestalotia Psidii Pat.

Hopkins (1938 a) 119, (1939 a) 36 ; Laughton (1948) 828.
as *Pestalozzia* sp., Hopkins (1930) 526.
on **Psidium Guajava** Linn., Mataffin, *Hall*, 34090 ; Amandas, Shamva, Bindura, Concession and Umtali, *Hopkins*.

Pestalotia Pterocelastri Laughton

Laughton (1948) 828.
on **Pterocelastrus tricuspidatus** Sond., Knysna, *Laughton*, 25143, Type.

Pestalotia quercina Guba

Laughton (1948) 829.
as *Pestalozzia* sp., Doidge & Bottomley (1931) 41.
on **Quercus** sp., Irene, *Doidge*, 2270, *D.F.O.*, 2071.

Pestalotia Rapaneae Laughton

Laughton (1948) 829.
on **Rapanea melanophleos** Mez., Storms River, *Doidge*, 17171, Type; Garden of Eden, Knysna, *Laughton*, 34433, 34910.

Pestalotia Theae Shaw

Hopkins (1938 a) 119, (1939 a) 45.
on **Thea sinensis** Linn., Chipinga, (Rh. 518).

Pestalotia Trichocladi Laughton

Laughton (1948) 829.
on **Trichocladus crinitus** Pers., Storms River, *Doidge*, 17169, Type, and *le Roux*, 34307.

Pestalotia versicolor Speg.

on **Persea americana** Mill., twigs, Nahoon Valley, *Jackson*, 33754; isolated from scab on fruit, Durban, *McClean;* Grahamstown, *Gowie.*
on underground timber in mine, Robinson Deep (T.R.L. 513 det. Baarn).

Pestalotia Watsoniae Verw. & Dipp.

Verwoerd & Dippenaar (1930 a) 327; Laughton (1948) 830.
on **Watsonia rosea** Ker. var. **alba,** Stellenbosch, *Verwoerd* (Stell. 297), Type; *Verwoerd* (Stell. 931) 34586.

Pestalotia Zahlbruckneriana P. Henn.

Hennings (1900 a) 3; Sacc. Syll. Fung. XVI: 1017; Laughton (1948) 830.
on **Strelitzia parvifolia** Dryand, inflorescence, Port Alfred, *Penther 1610.*

Pestalotia sp., nr. **P. Guepini** Desm.

Doidge & van der Plank (1936) 22.
isolated from:
Citrus sinensis Osbeck, rotting fruits, from White River and Zebediela, *Doidge.*

Pestalotia spp.

isolated from
Cydonia oblonga Mill., fruit, Mazoe, *Bates 390*, 34015.
on **Gossypium** sp., stem, Rhodesia, *Hopkins* (Hopkins 1931: 665).
isolated from
Litchi chinensis Sonn., ripe and immature fruit, Natal coast and eastern Transvaal, Bottomley.
on **Psorospermum** sp., Salisbury, *Eyles* (Eyles 1926: 646).

Scolecosporium pedicillatum Dearn. & Overl.
on **Olea Europaea** Linn., Elsenburg, *Gorter* (Stell. 1056).

Stilbospora Faureae Syd.
H. & P. Sydow (1912 c) 443.
on **Faurea saligna** Harv., Barberton, *v. d. Byl*, 5139, 5621

SCOLECOSPORAE.

Cylindrosporium castanicolum (Desm.) Berl.
on **Castanea dentata** Borkh., Johannesburg, *Clayden*, 34195.
Castanea sativa Mill., Cedara, *Fisher*, 6576 ; Tzaneen, *McCallum*, 30096, *D.F.O.*, 30492.

Cylindrosporium Chrysanthemi Ell. & Dearn.
Doidge & Bottomley (1931) 18.
on **Chrysanthemum morifolium** Ram., Maritzburg.

Cylindrosporium Juglandis Wolf
Hopkins (1938 a) 119, (1939 a) 23.
on **Juglans** sp., Melsetter (Rh. 2646).

Cylindrosporium Kilimandscharicum Allesch.
on **Commelina** sp., nr. Gogwana Mouth, Kentani, *Pegler 2341*, 9098, Kew.

Cylindrosporium Padi Karst.
Doidge & Bottomley (1931) 18.
on **Prunus Avium** Linn., Belfast.

Cylindrosporium Ribis Davis
Verwoerd & du Plessis (1933) 225 ; Nel (1942) 99.
on **Ribes sativum** Syme, Stellenbosch, *Verwoerd* (Stell. 416 ; v. d. Byl 2672).

Libertella ? Rhois Kalchbr.
in Herb., ? nom. nud.
on **Rhus MacOwani** Schonl., Cape, *MacOwan 1056*, Kew.

MONILIALES.

(**Hyphomycetae**).

ACTINOMYCETACEAE.

Actinomyces africanus (Pijper & Pullinger) Nannizzi
Nannizzi (1934) 4 : 8 ; Dodge (1936) 754 ; Erikson (1935) 18, 36 ; St. John-Brooks (1936) 8.
Nocardia africana Pijper & Pullinger (1927) 153–156.
on **Man :** isolated in a case of mycetoma pedis involving bones, in a South African native.

Actinomyces bovis Harz

on **Cattle :** causing actinomycosis or lumpy jaw in cattle ; occurs fairly commonly in South Africa.

Actinomyces dermatonomus Bull.

Steyn (1931) 205 ; Mason & Bekker (1934) 211.

on **Sheep :** causing a condition in merino sheep known as " lumpy wool ". The disease assumes serious proportions during certain seasons ; outbreaks have occurred in East Griqualand, the eastern and south-western districts of the Cape. A large number of cases occurred in the Humansdorp district in 1932 ; there have been isolated outbreaks in the Karroo districts.

Actinomyces Foulertoni (Chalmers & Christopherson) Sartory & Bailly

Nocardia Foulertoni Chalmers & Christopherson, Pijper (1919) 83.

on **Man :** isolated from chronic abscess in neck of native patient, Bethal, *Pijper*.

Actinomyces Leishmani (Chalmers & Christopherson) Sartory & Bailly.

Dodge (1936) 740.

Streptothrix sp., Birt & Leishman (1902) 121.

Actinomyces Leishmanii Erikson (1935) 203 ; St. John-Brooks (1936) 10.

on **Man :** isolated from nodules in lung and from pericardial fluid of patient from Ladysmith, Natal, *Birt & Leishman*.

Actinomyces Madurae (Vincent) Lachner-Sandoval

St. John-Brooks (1936) 10.

Nocardia indica Chalmers & Christopherson, Welchman & Pirie (1921) 6.

Discomyces Madurae Gedoelst, Welchman & Pirie, l.c.

on **Man :** isolated from " Madura foot " of male M'sutu native, Johannesburg ; other cases reported, but organism not identified.

Actinomyces mineaceus (Kruse) Lachner-Sandoval

Actinomyces ruber Sartory & Bailly, Davel (1931) 18.

isolated from red spots on butter wrappers and butter liners, producing a red colour on the butter surface ; locality not indicated.

Actinomyces Pijperi (Castellani & Chalmers) Sartory & Bailly

Doidge (1936) 755.

Nocardia sp., Pijper (1917 d) 50–53, (1917 c) 141, 142.

Nocardia Pijperi Castellani & Chalmers (1919) 1060.

Discomyces Pijperi Neveu-Lemaire (1921) 44.

on **Man :** found in mycopurulent sputum of a patient with chronic bronchitis, *Pijper*.

Actinomyces pretorianus (Pijper & Pullinger) Nannizzi

Nannizzi (1934) 4 : 38 ; Erikson (1935) 30, 37; Dodge (1936) 747 ; St. John Brooks (1936) 11.

Nocardia pretoriana Pijper & Pullinger (1927) 153–156.

on **Man :** isolated from a mycetoma of the shoulder of a native patient, *Pijper & Pullinger*.

Actinomyces scabies (Thaxt.) Gussow

Doidge & Bottomley (1931) 52 ; Hopkins (1938 a) 119, (1939 a) 43 ; Cardoso (1945) 158.

Oospora scabies Thaxter, Pole Evans (1906 a) 140.

Actinomyces chromogenus Gasp., Verwoerd (1929 b) 23.

Actinomyces sp., Verwoerd (1929 b) 16 ; Doidge & Bottomley (1931) 37.

on **Beta vulgaris** Linn., roots, Stellenbosch, *Verwoerd ;* Port Elizabeth.

Solanum tuberosum Linn., extremely common and widespread on tubers in the Union and in Southern Rhodesia ; Kromrivier, *S. G. Smith*, 24901 ; Rubbervale, 25498.

Actinomyces transvalensis (Pijper & Pullinger) Nannizzi

Doidge (1936) 756 ; Erikson (1935) 28, 37 ; St. John-Brooks (1936) 12.

Nocardia transvalensis Pijper & Pullinger (1927) 153–156.

on **Man** : found in mycetoma pedis in a South African native, Pretoria, *Pijper & Pullinger.*

Actinomyces spp.

Nocardia spp., Pijper (1917 c) 141, (1917 d) 50–53.

on **Man** : (1) isolated from sputum of a patient suffering from chronic bronchitis.
(2) isolated from urinary sediment in case of cystitis.

Actinomyces spp.

Ferreira (1941) 33.

on **Man** : several cases of actinomycosis reported from Moçambique territory, 1925–1930 ; 7 cases from Moçambique, one from Tete, 7 from Memba ; 22 cases from Angoche in 1931.

MUCEDINACEAE.

Hyalosporae.

Acremonium verticillatum Link

Verwoerd & du Plessis (1933) 222.

on **Pinus** sp., Stellenbosch (Stell. 628).

Acremonium sp.

Doidge & Bottomley (1931) 9.

on **Helianthus tuberosus** Linn., tubers, south-western Cape and northern Transvaal, *Bottomley.*

Aspergillus amstelodami (Mangin) Thom & Church

van der Byl (1920 e) 3.

from sugar, Natal coast, *v. d. Byl.*

on underground mine timbers, Robinson Deep (T.R.L. 527, det. Baarn).

Aspergillus candidus Link

Hopkins (1938 a) 119.

on cheese, Salisbury (Rh. 1952).

Aspergillus carbonarius (Bain.) Thom

du Plessis (1936) 14.

on **Vitis vinifera** Linn., berries, south-western Cape, *du Plessis.*

Aspergillus eburneus Biourge

on underground timber, Springs Mines (T.R.L. 851, det. Thom).

Aspergillus flavus Link

van der Byl (1921 e) 232 ; Hopkins (1938 a) 120, (1939 a) 30, (1939 b) 117.
on **Nicotiana tabacum** Linn., cured leaf, Darwendale (Rh. 2666) ; Salisbury (Rh. 2667) ; Banket (Rh. 2687, 3001).
on Termite comb, Pretoria, *Pole Evans, 1253.*
isolated from air in sugar mills, Natal coast, *v. d. Byl.*
isolated from coconut matting, New State Areas, *Bowen* (T.R.L. 349) 32393.
isolated from flannel bag used underground, Crown Mines (T.R.L. 1417, det. Thom).

Aspergillus fumigatus Fres.

Walker (1913) 199. (1915) 540 ; van der Byl (1920 e) 4 ; Hopkins (1938 a) 120 ; Nel (1942) 100.
isolated from **Struthio australis** (ostrich) from bone cavities, lungs and intestinal tract, Bedford, Albany and Alexandria districts, *Walker.*
isolated from **Spheniscus demursus** (penguin) from air sacs, Zoological Gardens, Pretoria, *Simpson, Robinson.*
isolated from **Anatidae** undet., (duck) from air sac, Salisbury (Rh. 1831).
occasionally found causing a disease in various aviary birds, *Robinson.*
isolated from sugar, Natal coast, *v. d. Byl 907*, 14258.

Aspergillus glaucus Link

Medley Wood (1897) 17 ; Hopkins (1938 a) 120.
on **Corylus avellana** Linn., nuts, Pretoria, 23649.
Nicotiana Tabacum Linn., cured leaf, Cape, *de Villiers*, 701.
Caryopemon cruciger Steph. in seeds of **Abrus precatorius** Linn., Pretoria, *Pole Evans*, 23618.
on cheese, Salisbury (Rh. 1953).
on matrix unspecified, Natal, *Medley Wood 44.*

Aspergillus glaucus (group) nr. **A. amstelodami** Mang.

on sterilised oats used for culturing false codlin moth, Cedara, *Ripley.*

Aspergillus sp. (**Aspergillus minutus** Gilman & Abbott prox.)

on flannel bag used underground, Durban Roodepoort Deep (T.R.L. 906, det. Thom).

Aspergillus niger van Tiegh.

van der Byl (1920 e) 4, (1920 c) 103, (1922 d) 283 ; Doidge & Bottomley (1931) 42, 43 ; Doidge & van der Plank (1936) 16 ; du Plessis (1936) 15 ; Bates (1937 b) 176, 189 ; Hopkins (1938 a) 120, (1939 a) 13, 49, 50, (1943) 182 ; Hopkins & Bacon (1938) 458 ; Verwoerd (1931 a) 301 ; Cardoso (1937) 152 ; Nel (1942) 100 ; Pirie (1940) 46 ; Cluver (1941) 49.
on **Allium Cepa** Linn., bulbs, Stellenbosch, *v. d. Byl 95 ;* Bloemfontein, *Verwoerd.*
Arachis hypogaea Linn., rotting nuts, Springbok Flats, *Bottomley, Sellschop.*
Citrus Limonia Osbeck, fruit, Mazoe, *Bates.*
Citrus sinensis Osbeck, fruit, Mazoe, *Bates ;* Pretoria, *Doidge.*
Gardenia sp., fruit, banks of Limpopo River, near junction with the Magalaquin, *Mogg*, 23647.

Mangifera indica Linn., Moçambique, *Cardoso.*
Pyrus malus Linn., fruit, Rhodesia, Hopkins & Bacon.
Vitis vinifera Linn., berries, south-western Cape, *du Plessis ;* Bulawayo, (Rh. 1779).
Zea Mays Linn., Bulawayo (Rh. 2135).
on rotting fruit, common in Moçambique, *Cardoso.*
on **Man :** isolated from ear (Otitis externa) Johannesburg, *H. I. Lurie.*
isolated from air in sugar mills, *v. d. Byl 905*, 14260 ; on artificial medium used for culturing insects, Cedara, *Ripley.*
on flannel bag used underground in mine, Durban Roodepoort Deep (T.R.L. 215 ; in ventilation tubing, Crown Mines (T.R.L. 1410, det. Thom).

Aspergillus ochraceus (series) near **Aspergillus melleus** Yukawa

Doidge & van der Plank (1936) 16.
on **Citrus Limonia** Osbeck, fruit, Zilikaats Nek, *Irvine.*

Aspergillus parasiticus Speare

van der Byl (1921 e) 233.
isolated from air in sugar mills, Natal coast, *v. d. Byl.*

Aspergillus repens (Corda) Sacc.

van der Byl (1920 e) 3 ; Nel (1942) 100.
? as **Aspergillus repens-glaucus** (series) van der Byl (1921 e) 233, (1920 e) 3 ; Nel (1942) 100.
from air in. sugar mills and from sugar, Natal Coast, *v. d. Byl 901, 902*, 14257.

Aspergillus Sartoryi Syd.

Sartory & Sydow (1913) 156 ; Herter (1913) 286 ; Sacc. Syll. Fung. XXV : 662.
isolated in gold mines, Johannesburg.
fide Herter, l.c., this is *Aspergillus flavus* Link.

Aspergillus sulphureus (Fres.) Thom & Church

Hopkins (1938 a) 120.
on **Nicotiana Tabacum** Linn., cured leaf, M'Soneddi (Rh. 2405).

Aspergillus Sydowi (Bain. & Sartory) Thom & Church

Stevenson & Rands (1938) 252.
on sugar, forming a velvety, blue green mould, South Africa.
on sterilised oats used for culturing larvae of false codlin moth, Cedara, *Ripley.*

Aspergillus terreus Thom

van der Byl (1920 e) 4 ; Nel (1942) 100.
isolated from sugar, Natal coast, *v. d. Byl 904*, 14261.

Aspergillus versicolor (Vuill.) Tirab.

on **Man :** isolated from cases of eczema (contaminant) Johannesburg, *H. I. Lurie.*
on flannel bag used underground in mine, Durban-Roodepoort Deep (T.R.L. 1495 det. Thom).
on canvas, Transvaal Rubber Co., Johannesburg, (T.R.L. 902, det. Thom).

Aspergillus Welwitschiae (Bres.) P. Henn.

Hennings (1903) 168 ; Wehmer (1907) 394 ; Thom & Church (1926) 178.
Ustilago Welwitschiae Bresadola, Sacc. Syll. Fung. XIV : 411; Verwoerd (1926 b) 31, (1928 b) 239 ; Zundel (1938) 318.
on **Welwitschia Bainesii** (Hk. f.) Carr., between Mossamedes and Koroka River, *Baum*, Kew ; Buraco, *Baum 1 ;* Goanekontas, nr. Swakop in the Namib, *Krige* (v. d. Byl 2499) ; Mossamedes, *Möller*.

Aspergillus sp.

Doidge & van der Plank (1936) 16.
on **Citrus sinensis** Osbeck, fruit, Pretoria, *Doidge*.

Aspergillus sp.

Verwoerd (1929 b) 12.
on **Ficus carica** Linn., fruit, George, *Verwoerd*.

Aspergillus sp.

Verwoerd (1929 b) 12.
on **Passiflora quadrangularis** Linn., fruit, Cape Town, *Verwoerd*.

Aspergillus spp.

van der Byl (1920 c) ; McMartin (1937 b).
on **Saccharum officinarum** Linn., cuttings, Natal, *McMartin ;* on sugar, Natal coast, *v. d. Byl*.

Aspergillus sp.

on **Furcaspis Proteae** Brain on **Faurea saligna**, Rustenburg, *Munro*, 26137.
Coccid. undet., 28447.

Beauveria Bassiana (Bals.) Vuill.

Schaefer (1936).
on **Cactoblastis cactorum** Berg, larvae & chrysalis, Uitenhage, *Petty*, 33422.
Nomadacris septemfasciata Serv., St. Lucia Bay, *Pole Evans*, 27654 ; Cambridge, *Magistrate ;* Pondoland, *Schaefer ;* widely distributed in the Union, *Schaefer*.

Beauveria globulifera (Speg.) Picard

McMartin (1935 b) 178.
Sporotrichum globuliferum Speg., Cooper (1899) 685.
as *Sporotrichum* sp., Howard (1902) 446.
on **Nomadacris septemfasciata** Serv., Natal coast, *McMartin ;* Alfred County, *Cooper*.

Botrytis Allii Munn.

Doidge & Bottomley (1931) 42.
on **Allium Cepa.**, Linn., bulbs, Molteno, *Bottomley :* Mara, Transvaal : Joubertina, *Reinecke*, 34157 ; Willowmore, *du Plessis*, 34429.

Botrytis cinerea Pers.

Van der Byl (1922 d) 287 ; V. A. Putterill (1923) 335 ; Verwoerd (1929 b) 5, 8, 12, 13 ; Hopkins (1930) 418, (1943) 185 ; Dippenaar (1931 a) 7, 8 ; Doidge & Bottomley (1931) 22, 26, 28, 34 ; Doidge & van der Plank (1936) 17 ; du Plessis (1936).

Monilia cinerea, Nel (1942) 100.

as *Botrytis* sp., Hopkins (1939 a) 49.

on **Amaryllis Belladonna** Linn., bulb, Kenilworth, *Verwoerd.*
Arachis hypogaea Linn., Durban, *v. d. Byl 317.*
Brassica oleracea Linn. var. **botrytis** Linn., Pretoria, 5128.
Citrus Limonia Osbeck, fruit, Groot Drakenstein, *Doidge.*
Citrus sinensis Osbeck, fruit, Groot Drakenstein, *Doidge ;* Mazoe, *Bates ;* Rhodesia, *Hopkins.*
Cyclamen indicum Linn., bulbs, Cape Town, Stellenbosch, *Verwoerd.*
Dahlia pinnata Cav., Harden Heights, *Pole Evans*, 1392.
Euphorbia pulcherrima Willd., south-western Cape, *Dippenaar.*
Ficus carica Linn., fruit, common in the Pretoria Distr., *Bottomley.*
Fragaria sp., Pretoria, *Doidge*, 33386 ; Mulder's Drift, *Bottomley ;* Salisbury, *Hopkins.*
Gladiolus sp., corm, George, *Verwoerd.*
Lathyrus odoratus Linn., Stellenbosch, *v. d. Byl*, 1893.
Lupinus angustifolius Linn., Stellenbosch, *Dippenaar.*
Medicago sativa Linn., Wynberg, *Dippenaar.*
Primula malacoides Franch., Pretoria, *Bottomley*, 34203.
Psidium guajava Linn., south-western Cape, *Dippenaar.*
Pyrus malus Linn., fruit, south-western Cape, *Dippenaar.*
Rosa spp., buds, south-western Cape, *Dippenaar.*
Rubus pinnatus Willd., fruit, Hopevale, *Doidge.*
Vitis vinifera Linn., berries, south-western Cape, *V. A. Putterill, du Plessis ;* Stellenbosch, *v. d. Byl 1139, Verwoerd ;* Robertson, *Verwoerd* (Stell. 377) ; Tulbagh, *Verwoerd ;* Pretoria, *Bottomley ;* Salisbury, *Hopkins* (Rh. 3778).

Botrytis Fabae Sard.

Gorter (1941) 168.

on **Vicia Faba** Linn., Cape Flats, *Gorter ;* Stellenbosch, *Gorter*, 33353.

Cephalosporium Sacchari Butl.

Van der Byl (1918 e), (1921 h) 125 ; McMartin (1937 b) 267, (1938) 214, (1943) 52 ; Stevenson & Rands (1938) 258.

on **Saccharum officinarum** Linn., stems, Natal coast, *v. d. Byl, McMartin.*

Cephalosporium sp.

on **Irene ditricha** (Kalchbr. & Cooke) Doidge on *Cassine papillosa*, Deepwalls, *Doidge*, 17216 b.
Irene natalensis Doidge on *Dovyalis rhamnoides*, van Staden's Pass, *Doidge*, 17256 a.
Irene Peglerae Doidge on *Halleria lucida*, Storms River, *Doidge*, 17182 a.
Meliola rhoina Doidge on *Harpephyllum caffrum*, Howieson's Poort, *Doidge*, 10958 b ; on *Rhus villosa*, Umkomaas, *Bottomley*, 11892 b ; Ruccleuch, *Doidge*, 11590 b.
Meliola torta Doidge on *Trichocladus crinitus*, Storms River, *Doidge*, 17170 d.
Meliola Woodiana Sacc., on *Canthium ventosum*, van Staden's Pass, *Doidge*, 10881 c.

See also *Calonectria Cephalosporii* Hansf., of which the conidial stage is a species of *Cephalosporium.*

Gliocladium deliquescens Sopp.

Doidge & van der Plank (1936) 21.

isolated from **Citrus sinensis** Osbeck, fruit from White River, Zebediela, Sunday's River, *Doidge.*

Gliocladium penicilloides Corda

on **Citrus nobilis** var. **deliciosa** Sw., twigs, East London, *Turner*, 25955.

Gliocladium roseum (Link) Bainier

Cardoso (1938) 74.

Penicillium roseum Link, Cardoso (1937) 152, (1945) 151.

on **Citrus sinensis** Osbeck, twigs, Upington ; ? fruit, sul do Save, *Cardoso ;* Magude, *Cardoso ;* Lourenço Marques, *Guimarãis.*

on underground mine timber, Robinson Deep (T.R.L. 375, det. Baarn).

? on **Argyroploce leucotreta** Meyr, pupa, Letaba Estates, *Rinder*, 27301.

Metarrhizium anisopliae (Metsch) Sorokin

Lewin (1936) 3–7.

on **Nomadacris septemfasciata** Serv., Pondoland, *Schaefer ;* Moçambique, *Lea ;* Northern Rhodesia, *Lewin.*

Sciobius granosus Gyl., larva & pupae, Muden, *Ripley.*

Monilia sitophila (Mont.) Sacc.

van der Byl (1921 e) 233.

on **Zea Mays** Linn., cobs, Estcourt, *Nel*, 33570 ; on cooked mealie meal, Marikana, *Turner*, 33552.

isolated from air in sugar mills, Natal coast, *v. d. Byl ;* from air in Crown Mines (T.R.L. 815).

Oidiopsis taurica Lév.

see Leveillula taurica (Lév.) Arn.

Oidium abelmoschi Thuem.

on **Hibiscus esculentus** Linn., Daspoort, 393.

Oidium Chrysanthemi Rabenh.

Verwoerd (1929 b) 10, (1931 a) 301 ; Doidge & Bottomley (1931) 19 ; Hopkins (1938 a) 120, (1939 a) 10.

on **Chrysanthemum morifolium** Ram., fairly common throughout the Union of South Africa, *Doidge & Bottomley ;* Stellenbosch, *Verwoerd* (Stell. 394) ; Wellington, Somerset West and Caledon, *Verwoerd ;* Bloemfontein, *Verwoerd ;* Salisbury, *Hopkins* (Rh. 1093, 1098) Kew ; Umtali (Rh. 1936).

Oidium Hortensiae Jørstad

Hopkins (1939 a) 23, (1930) 506.

as *Oidium* sp., Hopkins (1938 a) 120.

on **Hydrangea opuloides** Koch, Port Elizabeth, *Pringle*, 23681 ; Vereeniging, *Brandmüller*, 28802 ; Johannesburg, *Orr*, 27572 ; Durban, *McClean*, 30672 ; Stellenbosch, *du Plessis* (Stell. 516) ; Salisbury, *Hopkins* (Rh. 1603, 1787).

The perfect stage, which has been described as *Microsphaeria polonica* Siemaszko, has not been found in South Africa.

Oidium Lycopersicum Cooke & Mass.

on **Lycopersicum esculentum** Mill., northern Transvaal, not uncommon.

Oidium Mangiferae Berthal

as *Oidium* sp., Doidge & Bottomley (1931) 37 ; Hopkins (1938 a) 120, (1939 a) 26.

on **Mangifera indica** Linn., Mataffin, *Hall*, 26584, *Wager*, 26593 ; Duiwelskloof, *v. d. Merwe*, 22551, *Murray & Drysdale*, 26413 ; Salisbury (Rh. 615, 3276) ; Umtali, *Hopkins* (Rh. 1018, 228) Kew ; Theydon (Rh. 3371).

Oidium quercinum Thuem.

sub *Microsphaera Alni* (Wallr.) Wint., Hopkins (1938 a) 100.
sub *Microsphaera Alni* var. *extensa*, Hopkins (1939 a) 40.
? as *Phyllactinia corylea* in Nel (1942) 14.
? as *Oidiopsis taurica* in Nel (1942) 101.
? *as Oidium* sp., in Nel (1942) 161.

on **Quercus** spp., Groenkloof, *v. d. Vyver*, 21242 ; Norwood, Johannesburg, *Weintroub*, 33349 ; Knysna, *D.F.O.*, 13021 ; Stellenbosch, *Verwoerd* (Stell. 163) ; Ceres, Tulbagh, Wellington, Caledon, *Verwoerd ;* Durban, *v. d. Byl 58 ;* Stellenbosch, *v. d. Byl 2104 ;* Derdepoort, 17084 ; Norwood, *Weintroub*, 33349 ; Umtali (Rh. 1021) ; Salisbury (Rh. 2224, 2879) ; Inyanga & Stapleford, *Hopkins*.

Oidium Solani auct.

on **Solanum tuberosum** Linn., Mokeetsi, *Wilkinson*, 26595 ; Worcester, *Dippenaar ;* fairly common in the northern Transvaal ; Sarnia, *Rood ;* Seaview and Durban, *Wager ;* Salisbury (Rh. 1754).

Oidium Tabaci Thuem.

H. & P. Sydow (1909) 547 ; van der Byl (1922 d) 283 ; Moore (1926) 452 ; Verwoerd (1929 b) 27 ; Doidge & Bottomley (1931) 62 ; Eyles (1926) 649.
sub *Erysiphe cichoracearum* DC., Hopkins (1931 b) 49, (1938 a) 100, (1939 a) 28.

on **Nicotiana Tabacum** Linn., Pretoria 190, 15033 ; Daspoort, 258 ; Buffelspoort, *Doidge & Bottomley*, 32763 ; Rustenburg, *v. d. Byl*, 2197, *Doidge*, 15412 ; Piet Retief, 184 ; Nelspruit, *Wager*, 27583 ; Tzaneen, *Burtt Davy*, 135 ; Barberton, 398 ; Grahamstown, *Dewar*, 276 ; Stellenbosch, *Verwoerd* (Stell. 423) ; Oudtshoorn, Barrydale, Ladismith, *Verwoerd;* Mt. Murambala, Shire River, *Howard*, 643 ; Salisbury, *Eyles 2053*, (Rh. 1235, 1367, 1762, 2112, 2693) 15512 ; Concession (Rh. 110, 111, 211) ; Glendale (Rh. 211, 230) ; M'Soneddi (Rh. 766) ; Umvukwes (Rh. 3428) ; Marandellas, *Eyles*.
Nicotiana rustica Linn., Riversdale, *du Plessis* (Stell. 871).

Oidium Tuckeri Berk.

see Uncinula necator (Schw.) Burr.

Oidium Verbenae Thom & Bolle

Verwoerd (1931 a) 301.
as *Oidium* sp., Doidge & Bottomley (1931) 65 ; Hopkins (1938 a) 120, (1939 a) 47.
as *Oidium erysiphoides* Fr., Kalchbrenner & Cooke (1880) 23.

on **Verbena hybrida** Voss, Durban, *McClean*, 30671 ; Bloemfontein, *Verwoerd ;* Somerset East, *MacOwan 493 ;* Johannesburg, *Barlow*, 33746 ; Umhlanga Rocks, *Wager ;* Stellenbosch, *du Plessis* (Stell. 514) ; Salisbury, *Hopkins*, (Rh. 1365).

Oidium sp. (on **Asclepiadaceae**).

on **Asclepias** sp., Riversdale, *du Plessis* (Stell. 802).

Oidium sp. (on **Balsaminaceae**).

on **Impatiens balsamina** Linn., Durban, *McClean*, 32383.
Impatiens sp., Salisbury (Rh. 868).

Oidium sp. (on **Bignoniaceae**).

on **Bignonia capreolata** Linn., Stellenbosch, *Dippenaar* (Stell. 1008).

Oidium sp. (on **Borraginaceae**).

on **Trichodesma africanum** R. Br., Louis Trichardt, *Fitzgerald*, 26849.

Oidium sp. (on **Burseraceae**).

on **Balsamodendron epobalsamum** Kunth., Lourenco Marques, *Mota* (Cardoso, 1945 : 161).

Oidium spp. (on **Compositae**).

Hopkins (1938 a) 100, 120, (1939 a) 20, 41, 47, 51 (some sub *Erysiphe cichoracearum* DC.)

on **Aster Amellus** Linn., Stellenbosch, *du Plessis* (Stell. 803).
Dimorphotheca sp., Fauresmith, *Henrici*, 32111.
Euryops multifidus DC., Fauresmith, *Henrici*, 33081.
Gaillardia pulchella Foug., Wynberg, *Verwoerd ;* Durban, *v. d. Byl*, 32499.
Gerbera Jamesoni Bolus, Salisbury (Rh. 2136, 2695).
Helipterum roseum Benth., Durban.
Senecio cruentus DC., Natal.
Senecio latifolius DC., Salisbury (Rh. 2499) ; Vumba, *Hopkins*.
Senecio spp., Garstfontein, *Pienaar*, 1423 ; Booysens, *Burtt Davy*, 774.
Sonchus spp., Stellenbosch, *Dippenaar* (Stell. 519) ; Salisbury (Rh. 1796).
Tripteris pachypteris Harv., Grootfontein, *Gill*, 30664.
Veronia amygdalina Del., Salisbury (Rh. 3008).
Zinnia spp., Johannesburg, *Bottomley*, 33919 ; Umhlanga Rocks, *Wager :* Salisbury (Rh. 443, 1869, 1979).

Oidium spp. (on **Euphorbiaceae**).

Van der Byl (1922 d) 288 ; Verwoerd (1931 a) 300 ; Hopkins (1938 a) 120, (1939 a) 31.

on **Euphorbia** sp., Stellenbosch, *v. d. Byl ;* Bloemfontein, *Verwoerd*.
Pedilanthus tithymaloides Poit., Salisbury (Rh. 1836).

Oidium sp. (on **Geraniaceae**).

on **Erodium moschatum** L'Hérit., Elsenburg, *du Plessis* (Stell. 584).
Pelargonium sp., Garstfontein, *Erasmus*, 1943.

Oidium spp. (on **Labiatae**).

Hopkins (1938 a) 120, (1939 a) 24.

on **Leucas martinicensis** R.Br., Concession (Rh. 1330, 1344) ; Salisbury (Rh. 543) ; Banket (Rh. 570) Wonderboom, *Pole Evans*, 1297 ; very common in Natal.
Teucrium riparium Hochst., Maritzburg, *Pole Evans*, 1435.

Oidium spp. (on **Leguminosae : Caesalpineae**).

on **Afzelia quanzensis** Welw., Lourenço Marques, *Mota* ; Matola, *Guimarãis* (Cardoso 1945 : 159).
Bauhinia Galpinii N.E.Br., Pretoria, 32446.
Bauhinia sp., Duivelskloof, *Liebenberg*, 32722.
Cassia occidentalis Linn., Schagen, *Wager*, 26204 ; Lourenço Marques, *Howard*, 674, 971.
Isoberlinia globifera (Benth.) Hutch., Mnondo, *Hopkins* (Hopkins 1943 : 185 ; as *Erysiphe* sp. in Hopkins 1932 : 463).
Schotia latifolia Jacq., Bonza Bay, *Bottomley*, 26681.

Oidium spp. (on **Leguminosae : Papilionaceae**).

sub *Erysiphe Polygoni* DC., Hopkins (1938 a) 190, (1939 a) 18, 48 ; Bottomley (1932) 20 ; Nel (1942) 14 ; Eyles (1926) 630 ; Doidge & Bottomley (1931) 21, 32, 57.
on **Crotalaria juncea** Linn., Onderstepoort, *v. d. Walt*, 34191 ; Umvukwes, *Hopkins* (Hopkins 1943 : 183).
Dolichos biflorus Linn., Salisbury, *Hopkins*.
Dolichos lupiniflorus N.E.Br., M'Soneddi (Rh. 1914) ; Salisbury (Rh. 2142).
Glycine Max Merr., Cedara, *Staples*.
Tamarindus indica Linn., Lourenço Marques, *Mota* (Cardoso 1945 : 160).
Tephrosia transvaalensis Hutch. & Burtt Davy, Louis Trichardt, *Fitzgerald*, 26850.
Vicia Faba Linn., Ofcalaco ; Umbeluzi, *Guimarãis* (Cardoso 1945 : 160).
Vigna unguiculata (L.) Walp., Cedara, *Staples*, 15427 ; Concession (Rh. 1343) Kew ; Matopos (Rh. 2893) ; Amandas (Rh. 3226) ; Salisbury, *Eyles* (v. d. Byl 2053).
Vigna vexillata Benth., Pyramids, *Mogg*, 33231.
Voandzeia subterranea Thouars, Stegi, *Young*, 9694 ; Cedara, *Staples*, 17057 ; Natal, *Curson*, 34173.

Oidium sp. (on **Loganiaceae**).

on **Buddleia salvifolia** Lam., Pretoria, *van Nouhuys*, 21053 ; Garstfontein, *Doidge*, 1373 ; Pelindaba, *Doidge & Bottomley*, 32818 ; The Willows, *Doidge & Bottomley*, 32788 ; Barberton, *Pole Evans*, 1858.

Oidium sp. (on **Malvaceae**).

on **Sida cordifolia** Linn., Lourenço Marques, *Howard*, 970.

Oidium sp. (on **Moraceae**).

on **Cannabis sativa** Linn., Potchefstroom, *v. d. Byl*, 2258.

Oidium sp. (on **Ranunculaceae**).

on **Helleborus niger** Linn., Wolseley, *Dippenaar* (Stell. 518).

Oidium sp. (on **Rosaceae**).

on **Prunus salicina** Lindl., Stellenbosch, *Dippenaar*.

Oidium sp. (on **Scrophulariaceae**).

on **Linaria** sp., Salisbury (Rh. 945) Kew,

Oidium spp. (on **Solanaceae**).

Hopkins (1939 a) 32, 33, 42, (1943) 184.

on **Datura ferox** Linn., Umtali, *Hopkins*.

Datura Stramonium Linn., Bon Accord, *Mogg*, 32435 ; Rhenosterfontein, Nylstroom, *Turner*, 33230.

Petunia hybrida Vilm., Salisbury, (Rh. 1769).

Physalis angulata Linn., Salisbury, *Hopkins*.

Solanum indicum Linn., Melsetter, *Swynnerton*, 10712.

Solanum melongena var. **esculentum** Nees, Salisbury (Rh. 1760) ; Durban, *Wager*.

Oidium spp. (on **Sterculiaceae**).

on **Dombeya cymosa** Harv., Table Mt., Natal, *Fuller*, 1678.

Hermania sp., Pretoria, 896.

Oospora Citri-aurantii Ferraris

Doidge (1929 b) 323 ; Doidge & Bottomley (1931) 45 ; Doidge & van der Plank (1936) 21 ; Bates (1937 a) 157, (1937 b) 176, 185 ; Hopkins (1938 a) 120, (1939 a) 13 ; Cardoso (1939) 44, (1945) 151 ; St. John-Brooks (1936) 90.

on **Citrus sinensis** Osbeck, fruit, Rustenburg, *Doidge ;* Mazoe, *Bates ;* Riversdale, S. Rhodesia (Rh. 1033, 1043) ; Moçambique, *Cardoso*.

Oospora fimicola (Cost. & Matruch.) Cub. & Meg.

Monilia fimicola Cost. & Matruch., Bottomley (1939) 27.

on mushroom beds, Cambridge, *McNish*, 29943 ; Pretoria, *Hall*, 30293.

Oospora Fusidium (Thuem.) Sacc. & Vogl.

Sacc. Syll. Fung. IV : 21.

Torula Fusidium (Thuem., von Thuemen (1877) 412.

on **Encephalartos cycadifolius** Lehm, living leaves, Boschberg, *MacOwan 1328* (Thuem. Myc. Univ. 1381 ; S.A.M. 35181) 21979.

Oospora lactis (Fres.) Sacc.

Oidium lactis Fres., Doidge (1910) 26.

isolated from kaffir beer made from maize, **Zea Mays** Linn. and " Mabele " **Sorghum caffrorum** Beauv., *Doidge ;* ? from gelatinous scum in Citrus by-products factory, Mazoe, *Bates 394*, 34014.

Oospora pustulans Owen & Wakef.

on **Solanum tuberosum** Linn., Underberg, *Wager, Verwoerd*.

Ovularia bistortae (Fuck.) Sacc.

on **Polygonum aviculare** Linn., Elsenburg, *Gorter* (Stell. 1083).

Ovularia Lolii Volkart

on Lolium temulentum Linn. Elgin, *Dippenaar* (Stell. 1015, 1016).

Ovulariopsis moricola Del.

Hopkins (1930) 528.

sub *Phyllactinia corylea* (Pers.) Karst., Hopkins (1938 a) 100, (1939 a) 26 ; Cardoso (1945) 154.

on **Morus** sp., Durban, *McClean*, 30762 ; Salisbury (Rh. 882, 1551) ; Lourenço Marques, *Guimarães*.

Ovulariopsis Papayae v. d. Byl

van der Byl (1921 b) 189 ; Hopkins (1938 a) 120, (1939 a) 9 ; Doidge & Bottomley (1931) 46.

? as *Phyllactinia corylea* (Pers.) Karst., Cardoso (1939) 44, (1945) 155.

on **Carica Papaya** Linn., Durban, *v. d. Byl*, 32018, *McClean*, 21586, 22089, *Bottomley*, 30750 ; Stella Bush, *Wager*, 32458 ; Maritzburg, *Wager*, 32457 ; Valencia, *de Beer*, 26337 ; Barberton, *Pole Evans*, 1920 ; Boschrand Citrus Estates, *Wager*, 26570 ; Letaba, *Cousins*, 27547 ; Salisbury (Rh. 763, 983, 1521, 1532) ; Shamva, Trelawney, Banket, Umtali, *Hopkins ;* Salisbury, *Hopkins* (Rh. 214) Kew ; Mbabane, *Smith* (Stell. 56) ; Lourenço Marques, *Guimarães*.

Ovulariopsis Passiflorae Syd.

? as *Oidiopsis taurica* in Nel (1942) 101.

on **Passiflora** sp., Koodoo's Poort, *Pole Evans*, 1414 ; ? Bethlehem, *v. d. Merwe* (v. d. Byl 1444).

Ovulariopsis sp.

on **Chenopodium ambrosioides** Linn., without locality, 541.

Ovulariopsis sp.

sub *Phyllactinia corylea* (Pers.) Karst., Hopkins (1938 a) 100, (1939 a) 33.

on **Phlox Drummondii** Hook., Settlers, 33474, *Kraamwinkel*, 33229 ; Salisbury *Hopkins* (Rh. 3596).

Ovulariopsis sp.

on **Zantedeschia aethiopica** (L.) Spreng., Pretoria, 60 c, *Terry*, 34158 ; Barberton, *Doidge*, 2011 ; Zeerust, *Wolmarans*, 26702.

Paecilomyces aureo-cinnamomeum (Biourge) Thom

isolated from coconut matting used underground in mine, New State Areas, *Bowen* (T.R.L. 350, det. Baarn) 33294.

Paecilomyces varioti Bainier

Thom (1930) 544–546 ; Doidge & van der Plank (1936) 21 ; Stevenson & Rands (1938) 288.

Penicillium divaricatum Thom, van der Byl (1920 c) 1, (1921 e) 232.

isolated from

Citrus sinensis Osbeck, rotting fruit from Rustenburg, Sunday's River, Groot Drakenstein, *Doidge*.

from air in fruit inspection sheds, *V. A. Putterill*.

from air in sugar mills, *v. d. Byl*, 14259.

Paecilomyces sp.

isolated from brattice cloth used underground in mine, New Modderfontein, (T.R.L. 1403, det. Thom).

Penicillium acidoferum Sopp.

isolated from **Citrus sinensis** Osbeck, decaying fruit, Cedara, *Ripley.*

Penicillium sp. (**Penicillium Adametzi** Zal. prox.)

isolated from ventilation tubing, Crown Mines (T.R.L. 1419, det. Thom).

Penicillium brévi-compactum Dierckx

on brattice cloth, underground in mine, New Modderfontein (T.R.L. 759, det. Thom).

Penicillium citrinum Thom

Thom (1930) 256, 258.

isolated from fruit, Cape Town, *V. A. Putterill.*

Penicillium coryphilum Dierckx.

Thom (1930) 254.

isolated from air in fruit packing and inspection sheds, Cape Town, *V. A. Putterill.*

Penicillium cyclopium Westling

du Plessis (1936) 384–385, as *Penicillium cyclopodium* West.

isolated from **Vitis vinifera** Linn., berries, south-western Cape, *du Plessis.*

Penicillium digitatum Sacc.

Pole Evans (1908 e) 126; Verwoerd (1929 b) 9, 15, 19; Doidge & Bottomley (1931) 34, 44; Doidge & van der Plank (1936) 21; Bates (1937 a) 157, (1937 b) 176, 184; Hopkins (1938 a) 120; Cardoso (1938) 76, (1937) 152, (1945) 151, 152, 153; St. John-Brooks (1936) 93.

on **Carica Papaya** Linn., fruit, south-western Cape, *Dippenaar.*

Citrus Limonia Osbeck, on fruit, common and widespread; Sul do Save, *Cardoso;* Lourenço Marques, *Cardoso.*

Citrus maxima Merr., common on fruit; Magude, *Cardoso.*

Citrus nobilis Lour. var. **deliciosa** Sw., common on fruit; Lourenço Marques, *Soares.*

Citrus sinensis Osbeck, common and widespread on fruit, the most common cause of rotting in stored fruit; Mazoe (Rh. 290); Riversdale, S. Rhodesia (Rh. 1035, 1036, 1047, 1263); Mazoe, *Bates;* Magude, *Cardoso;* Lourenço Marques, *Cardoso.*

Physalis peruviana Linn., fruit, Stellenbosch, *Verwoerd.*

Var. **californicum** Thom.

Doidge & van der Plank (1936) 21.

isolated from

Citrus sinensis Osbeck, fruit from Sunday's River and Groot Drakenstein, *Doidge;* Oppaslaagte, *Lowe,* 30659.

Penicillium Duclauxii Delacr.

isolated underground in mine, Simmer & Jack Mines, (T.R.L. 360, det Baarn; *Penicillium Duclauxii* prox. fide Thom).

Penicillium elongatum Dierckx.

du Plessis (1936) 14.

isolated from **Vitis vinifera** Linn., berries, south-western Cape, *du Plessis.*

Penicillium expansum Link emend. Thom

V. A. Putterill (1923 a) 332 ; Doidge & Bottomley (1931) 6 ; du Plessis (1936) 14 ; Hopkins (1939 a) 39.

as *Penicillium* sp., Verwoerd (1929 b) 6.

on **Pyrus malus** Linn., decaying fruit, common throughout South Africa, especially on fruit in cold storage ; Cape Town, Elgin, Stellenbosch, Villiersdorp, *Verwoerd ;* Salisbury, *Hopkins.*

Vitis vinifera Linn., berries, south-western Cape, *V. A. Putterill, du Plessis.*

Penicillium funiculosum Thom

Thom (1930) 464, 465.

as *Penicillium* sp., Doidge & Bottomley (1931) 50.

isolated from **Ananas comosus** Merr., fruit, Bathurst Distr., *Bottomley.*

Penicillium sp. (between **Penicillium Gilmanii** Thom & **P. guttulosum**)

isolated from coat of mine native, Randfontein Estates (T.R.L. 423 a, det. Thom).

Penicillium Gladioli Machacek

Hopkins (1938 a) 120, (1939 a) 20.

on **Gladiolus** spp., corms, Salisbury (Rh. 1437, 1706) ; on corms imported from Holland, Port Elizabeth, *Bottomley,* 30706.

Penicillium glaucum Link

on **Corylus Avellana** Linn., nuts, Pretoria, 23651.

Penicillium Gratioti Sartory

Sartory (1913) 161 ; Thom (1930) 338 ; Sacc. Syll. Fung. XXV : 681.

Penicillium glaucum Link, Herter (1913) 289.

from gold mine (6th level, City Deep Mine) Witwatersrand, *Pole Evans,* 5587.

Penicillium sp. (**Penicillium Hagemi** Zal. prox.)

isolated from flannel used underground in mine, Durban Roodepoort Deep, *Lurie* (T.R.L. 214) 33287 ; van Rhyn Deep (T.R.L. 217, det. Thom).

Penicillium sp. (**Penicillium intricatum** Thom prox.)

isolated from flannel used underground in mine, Witwatersrand (T.R.L. 220, det. Thom) 33288 ; Roodepoort Deep (T.R.L. 1496, det. Thom).

Penicillium italicum Wehm.

V. A. Putterill (1921) 531 ; Verwoerd (1929 b) 15, 19, (1931 a) 301 ; Doidge & Bottomley (1931) 34, 43 ; Doidge & van der Plank (1936) 21 ; Bates (1937 a) 157, (1937 b) 176, 184 ; Hopkins (1938 a) 120, (1939 a) 11 ; Cardoso (1938) 76, (1937) 52.

on **Citrus Limonia** Osbeck, fruit, common in the Union of South Africa and in Southern Rhodesia.

Citrus maxima Merr., fruit, Sunday's River and Groot Drakenstein, *Doidge.*
Citrus nobilis var. **deliciosa** Sw., fruit, fairly common.
Citrus sinensis Osbeck, common throughout the Union of South Africa and Southern Rhodesia ; Sul do Save, *Cardoso ;* Magude, *Cardoso.*
Prunus persica Sieb. & Zucc., Rosebank, *V. A. Putterill.*
Prunus salicina Lindl., Rosebank, *V. A. Putterill.*

Penicillium janthinellum Biourge

isolated from brattice cloth used underground in mine, Modderfontein Deep (T.R.L. 1401, det. Thom)

Penicillium lanosum Westling

isolated from brattice cloth used underground in mine, Modderfontein Deep, (T.R.L. 761, det. Thom).

Penicillium ? luteo-viride Biourge

Thom (1930) 462.

isolated from air in fruit-packing and inspection sheds, Cape Town, *V. A. Putterill.*

Penicillium luteum Zukal

isolated from coat of mine native, Randfontein Estates (T.R.L. 426, det. Baarn).

Penicillium luteum (series)

Doidge & van der Plank (1936) 22.

on **Citrus sinensis** Osbeck, fruit, Barclayvale, *Doidge.*

Penicillium notatum Westling.

in cultivation at Medical Research Institute, Johannesburg.
? isolated from ventilation tubing, Crown Mines (T.R.L. 1422, det. Thom).

Penicillium oxalicum Currie & Thom

Hopkins (1938 a) 120.

on **Zea Mays** Linn., grain, Hunyani (Rh. 1094) ; Fort Victoria (Rh. 1164) ; Amandas (Rh. 1660) ; Salisbury (Rh. 1713) ; ? Johannesburg, 187.

Penicillium palitans Westling

isolated from flannel used underground in mine, Durban Roodepoort Deep (T.R.L. 226, det. Thom).

Penicillium ? Petchii Sartery & Bainier

Thom (1930) 454.
as *Penicillium* sp., Doidge & Bottomley (1931) 50.

isolated from **Ananas comosus** Merr., fruits, Bathurst Distr., *Bottomley.*

Penicillium pinophilum Hedgcock

Thom (1930) 462, 463.
as *Penicillium* sp., Doidge & Bottomley (1931) 50.

isolated from **Ananas comosus** Merr., fruit, Bathurst Distr., *Bottomley.*

Penicillium purpurogenum Stoll.
van der Byl (1920 e) 4.
isolated from sugar, Natal coast, *v. d. Byl*, 14262.

Penicillium Putterillii Thom
Thom (1930) 368.
isolated from air in fruit-packing and inspection sheds, Cape Town, *V. A. Putterill.*

Penicillium Roqueforti Thom
Davel (1940–1943).
introduced in culture for the manufacture of Roquefort cheese.

Penicillium roseo-citrinum Biourge
Thom (1930) 323.
isolated from air in fruit inspection and packing sheds, Cape Town, *V. A. Putterill.*

Penicillium rugulosum Thom var. **aureomarginatum**
isolated from coconut matting, underground in mine, New State Areas (T.R.L. 351).

Penicillium sp. (**Penicillium simplicissimum** (Oud.) Thom prox.)
isolated from ventilation tubing, Crown Mines (T.R.L. 1416, det. Thom).

Penicillium solitum Westling
isolated from canvas used underground in mine, Randfontein Estates (T.R.L. 222).

Penicillium tardum Thom
Thom (1930) 485.
isolated from air in fruit-packing and inspection sheds, Cape Town, *V. A. Putterill;* from underground mine timber, Durban Roodepoort Deep (T.R.L. 248, det. Thom).

Penicillium verrucosum Dierckx.
Doidge & van der Plank (1936) 22.
on **Citrus sinensis** Osbeck, Zebediela and northern Transvaal, *Doidge.*

Penicillium viridicatum (series).
Thom (1930) 392, 393.
isolated from air in fruit inspection and packing sheds, Cape Town, *V. A. Putterill.*

Penicillium spp.
Doidge & van der Plank (1936) 22.
on **Citrus sinensis** Osbeck, numerous unidentified species isolated from rotting fruit, these were not pathogenic.

Penicillium sp.
McMartin (1937 b).
on **Saccharum officinarum** Linn., cuttings, Natal coast, *McMartin.*

Physospora rubiginosa Fr.

Kalchbrenner & Cooke (1880) 24 ; Sacc. Syll. Fung. IV : 89.

Rhinotrichum rubiginosum (Fr.) Lloyd (1916 d) L. 63 : 4 : van der Byl (1922 d) 228.

on surface of dead wood, Somerset East, *MacOwan 1387*, 21996 ; Stellenbosch, *Duthie 85*, 31342 ; Fountains Valley, *Bottomley*, 28461.

Rhinotrichum Curtisii Berk. & Curt.

on dead wood and bark, Town Bush Valley, *Rump 319 a, 461 a*, 28678, 28979 ; poplar bush near Wonderboom, *Doidge & Bottomley*, 28726 ; de Beer's Rust, *Doidge & Hean*, 30695 ; Boschfontein, *Doidge & Bottomley*, 33204.

Scopulariopsis sphaerospora F. Zach

on **Man :** isolated from cases of eczema (probably a contaminant) Johannesburg, *H. L. Lurie.*

Sorosporella uvella (Krass.) Giard.

on **Euxoa segetis** Schiff, (Cutworm) larvae, Natal, *Ripley.*

Sorosporella sp.

on **Gryllus** sp., (Cricket) Pretoria, *Schaefer.*

Sphaceloma ampelinum de Bary

Doidge & Bottomley (1931) 27 ; Cardoso (1939) 45, (1945) 155.

Phoma ampelinum de Bary, Pole Evans (1906 a) 137.

Gloeosporium ampelophagum (Pass. Sacc.,) Lounsbury (1906) 29; Pole Evans (1908 d) 577 ; van der Byl (1922 d) 287 ; Eyles (1926) 651 ; Verwoerd (1929 b) 12, (1931 a) 301 ; Doidge & Bottomley (1931) 27 ; Hopkins (1938 a) 119, (1939 a) 48 ; Nel (1942) 99 ; Cardoso (1937) 155.

on **Vitis vinifera** Linn., Constantia, 34 ; Stellenbosch, Wellington, Paarl, Wynberg, Constantia, Stormsvlei, *Verwoerd;* Stellenbosch, *du Plessis*, (Stell. 207), *van der Byl 100:* Bloemfontein, *Verwoerd ;* Natal, 447 ; Pretoria, 225, *Hawke*, 15056, *Smit*, 15653, *v. d. Merwe*, 27355, *Bottomley*, 32637 ; Krugersdorp, 15057 ; Nelspruit, *McGregor*, 24876 ; Barberton, *Winter*, 142 ; The Downs, *Murray*, 30886 ; Lourenco Marques, *Howard*, 972, *Santos & Arcas;* Umbeluzi & Quelimane, *Guimarāis;* Bulawayo (Rh. 56) ; Rusape (Rh. 719); Salisbury & Selukwe, *Eyles;* Gwelo, *Hopkins;* Durban, *v. d. Merwe* (v. d. Byl 647) 31874 ; Mahlabatini, *Gerstner.*

Sphaceloma Fawcetti Jenkins

Verwoerd (1929 b) 15 ; Doidge & Bottomley (1931) 27, 34, 45, 56 ; Bates (1937 b) 206 ; Hopkins (1938 a) 103 ; Cardoso (1937) 155, (1938) 75, (1939) 44, (1945) 151, 152, 153.

Elsinoe Fawcetti Bitancourt & Jenkins, Hopkins (1939 a) 12.

as *Sporotrichum Citri* Butler, Hopkins (1930) 417 ; Cardoso (1935) 184.

as *Cladosporium Citri* in Nel (1942) 97.

on **Citrus aurantium** Linn., Ofcalaco, *Douglas*, 25475 ; Amatikulu, *Ardington*, 15036.

Citrus Limonia Osbeck, leaves, twigs and fruit, Ginginhlovu, *Goldsmith*, 2150 ; East London, *Kruize*, 25432 ; White River, *Cazalet*, 24908, *Connaughton*, 6966 ; Hammans Kraal, 921 ; Warmbaths, 698, 922 ; Nelspruit, *Wager*, 32774 ; eastern Transvaal, *Doidge*, 32768 ; Duivelskloof, *Wager*, 25449 ; Piquetberg, *Verwoerd ;* Phoenix, *Wager ;* Golden Valley, Muden, *Wager ;* Salisbury (Rh. 1041) ; Shamva (Rh. 2280) ; Odze (Rh. 3538) ; Umtali, *Hopkins ;* Mazoe, *Bates ;* Xinavane, *Cardoso ;* Chinhangvanine, Chobela, Umbeluzi, *Guimarāis, Cardoso ;* Lourenço Marques, *Botelho.*

Citrus maxima Merr., Amatikulu, *Ardington*, 15036 ; Verulam, *Esselen*, 23683.
Citrus nobilis var. **deliciosa** Sw., Bathurst, *Clark*, 30983, 31006, Lourenço Marques, *Silva*.
Citrus sinensis Osbeck, fruit, Buccleuch, *Doidge ;* Magude, Xinavane, Umbeluzi, *Cardoso*.
Citrus sp., Swaziland, *v. d. Byl 1322*.

Sphaceloma Perseae Jenkins

Jenkins (1934 a) 75, (1934 b) 859 ; Hopkins (1938 a) 121, (1939 a) 32.
as *Sphaceloma* sp., Doidge & Bottomley (1931) 10.
on **Persea americana** Mill., Grahamstown, *Gowie*, 29882 ; Duivelskloof, *Mills*, 30984 ; Shamva (Rh. 1259, 2280).

Sphaceloma Poinsettiae Jenkins

on **Euphorbia pulcherrima** Willd., Southern Rhodesia, *Hopkins*.

Sphaceloma Rosarum (Pass.) Jenkins

Hopkins (1938 a) 121, (1939 a) 40.
on **Rosa** spp., Salisbury (Rh. 2148, 2719) ; Stapleford (Rh. 2730) ; Bulawayo, (Rh. 3124) ; Kinross, *Way*, 34002.

Sphaceloma Violae Jenkins

Massey & Jenkins (1935) ; Jenkins (1938) 86.
Gloeosporium Violae Berk. & Br., Hopkins (1938 a) 119, (1939 a) 48.
on **Viola odorata** Linn., Greytown, *Doidge*, 28709 ; Estcourt, *Erxleben*, 33080 ; Pretoria, *Jordaan*, 28807, *Kresfelder*, 30982 ; Balfour, *Moore*, 33154 ; Johannesburg, 30864, Pretoria, *Bottomley*, 33604 ; Grahamstown, *Kannemeyer*, 33979 ; Umtali, Hopkins, (Rh. 1935) ; Salisbury, Banket, Gwelo, *Hopkins*.

Sphaceloma sp.

? *Elsinoe Pyri* (Woron.) Jenkins, Sphaceloma stage, Hopkins (1939 a) 39.
on **Pyrus malus** Linn., leaves, Umtali, *Hopkins*.

Sporotrichum Carougeaui Langeron

Pijper (1931) 390 ; St. John-Brooks (1936) 124.
on **Man :** isolated from superficial lesions of the skin, *Pijper*.

Sporotrichum Citri Butler

Doidge & Butler (1924) 119.
isolated from **Citrus Limonia** Osbeck, leaves, associated with *Sphaceloma Fawcetti* Jenkins. Kew.

Sporotrichum epiphyllum Link

Kalchbrenner (1882 b) 27 ; Sacc. Syll. Fung. IV : 97.
on **Pelargonium** sp., dying leaves, Somerset East, *MacOwan 1171*.

Sporotrichum paranense Marchion.

Cardoso (1937) 153, (1939) 44.
on **Nomadacris septemfasciata** Serv., Lourenço Marques, *Cardoso ;* Moamba, *Vianna ;* Mungari, *Frias ;* Muguene, *Vieira ;* Impamputo, *Cardoso ;* Quelimane, *Cardoso*.

Sporotrichum roseum Link

on **Pyrus communis** Linn., twigs, Pretoria, 20674.

Sporotrichum Schencki Matruchot

Robinson & Parkin (1929) 24.

on **Horse** : isolated from skin lesions, Pretoria, *Robinson & Parkin.*

Var. **Beurmanni** (Matruchot & Ramond) Dodge

Sporotrichum Beurmanni Matruchot & Ramond, Pijper & Pullinger (1927 b) 914 ; Dangerfield & Gear (1941) 128 ; du Toit (1942) 2 ; St. John-Brooks (1936) 124.

Rhinocladium Beurmanni Vuill., Goldberg & Pijper (1931) 140.

as *Sporotrichum Schencki* Matruchot, Ferreira (1941) 41.

on **Man** : isolated from lesions in numerous cases of " sporotrichosis " amongst natives working underground in gold mines on the Witwatersrand ; 74 cases from Simmer & Jack Mines and Robinson Deep ; about 650 cases amongst natives and some Europeans at Venterspost ; Randfontein Estates, Geldenhuis Deep, Blyvooruitzicht ; Johannesburg (T.R.L. 1766) 33499 ; Modderfontein East (T.R.L. 1764): Johannesburg (T.R.L. 1433, det. Baarn) 34229 ; Consolidated Main Reef Mines (T.R.L. 1908) ; from lesions on European from Kanye, Bechuanaland ; from wrist of European woman, Port Elizabeth, *Harington ;* several cases amongst natives in Moçambique, *Ribeiro, Ferreira.*

isolated from underground mine timbers, Consolidated Main Reef Mines (T.R.L. 1802) 33498 ; Venterspost (T.R.L. 1801).

from spore catch in mine, Venterspost, *Simson* (T.R.L. 1807) : the only spore catch culture of this fungus, on about 300 petri dishes exposed over a period of 2 years.

Trichoderma lignorum (Tode) Harz

Doidge & van der Plank (1936) 23 ; Bates (1937 b) 176, 198 ; Hopkins (1938 a) 121, (1939 a) 13.

Trichoderma viride Pers., Hopkins (1941) 1.

on **Citrus Limonia** Osbeck, fruit, Mazoe, *Bates.*

Citrus sinensis Osbeck, fruit, Mazoe, Bates ; isolated from rotting fruit from Letaba, White River, Zebediela, Rustenburg, Muden, Sunday's River, Groot Drakenstein, *Doidge ;* from roots, northern Transvaal, *Doidge.*

Solanum tuberosum Linn., tubers, southern Rhodesia, *Hopkins.*

isolated from discoloured wood of orange boxes, eastern Transvaal, *Doidge.*

from underground mine timber, Durban Roodepoort Deep (T.R.L. 249, det. Baarn) from coat of mine native, Randfontein Estates (T.R.L. 427, det. Baarn).

Verticillium albo-atrum Reinke & Berth.

Hopkins (1938 a) 121, (1939 a) 44 ; Doidge & Bottomley (1931) 53.

on **Gossypium** sp., Kakamas, *Moore*, 27657 ; Perde Eiland and Bassonsdrift, *Gutsche Moore ;* Upington, *Agric. officer ;* Pongola, *Moerdyk.*

?on**Solanum Melongena** var. **esculentum** Nees, Tulbagh, *Dippenaar.*

on **Solanum tuberosum** Linn., Salisbury (Rh. 1891) ; Cape, *Doidge & Bottomley.*

Verticillium pulvinulum Kalchbr. & Cooke

Kalchbrenner (1882 b) 27 ; Sacc. Syll. Fung. IV : 151.

on **Aloe** sp., dying leaves, Somerset East, *MacOwan 1170.*

Verticillium terrestre (Pers.) Sacc.

on **Triticum aestivum** Linn., Stellenbosch, *Gorter*, 33365.

Verticillium sp.

Hopkins (1931 b) 61.

on **Nicotiana Tabacum** Linn., roots, Rhodesia, *Hopkins*.

Verticillium sp.

Hopkins (1939 a) 51 ; Bottomley (1939) 26.

on **Pholiota** sp., cultivated mushrooms, Rhodesia, Hopkins (*Verticillium agaricinum* Corda aff.)

Psalliota sp., Groenkloof, *Winkworth*, 30705.

HYALODIDYMAE.

Cephalosporiopsis parasitica Hansf.

on **Irene inermis** (Kalchbr. & Cooke) on **Buddleia salvifolia**, Buccleuch, *J. M. Sim*, 10146 b.

Cylindrocladium scoparium Morgan

on **Acacia mollissima** Willd., base of stem of seedlings and young trees, Natal midlands, *Ledeboer*.

Mycogone aurantiaca Cam.

da Camara (1918) 11 ; Sacc. Syll. Fung. XXV : 716 ; Cardoso (1945) 159.

on ? rhizomorphs of Agaricaceae or Polyporaceae undet., Zambesi region.

Mycogone sp.

on **Russula cyanoxantha** (Schaeff. ex Secr.) Fr., Kirstenbosch, *Pocock* (E. L. Stephens 360 34495.

Rhynchosporium secalis (Oud.) Davis

N. J. G. Smith (1937) 286.

on **Hordeum vulgare** Linn., Stellenbosch, Albany, Knysna, Humansdorp and Stockenstroom districts, *N. J. G. Smith*.

Trichothecium roseum Link

Cephalothecium roseum Corda, Eyles (1926) 645, 647 ; Doidge & Bottomley (1931) 8, 44 ; Hopkins (1930) 649, (1938 a) 120, (1939 a) 13, 16 ; Doidge & van der Plank. (1936) 17.

on **Citrus sinensis** Osbeck, fruit, Riversdale, S. Rhodesia (Rh. 1043, 1068); Pretoria, *Doidge*
Corylus avellana Linn., nuts, Pretoria, 23648.
Dahlia pinnata Cav., tuber, Salisbury (Rh. 1832).
Fragaria sp., fruit, Salisbury (Rh. 97).
Passiflora sp., dead stems, Pretoria, *Fouche*, 14142.
Prunus salicina Lindl., Umvukwes, Eyles.
Pyrus communis Linn., stems, Pretoria, 20673.
Pyrus malus Linn., fruit, Transvaal, *Doidge & Bottomley*.
Rosa sp., Mazoe, Eyles.
Ravenelia MacOwaniana Pazschke, aecidial galls, Groenkloof, *Howlett*, 12799.
Scleroderma Cepa Pers., Fountains Valley, *Bourquin*, 21097, *Bottomley & Louwrens*, 28582.

on sterilised oats, used for culturing insect larvae, Cedara, *Ripley*.

HYALOPHRAGMIAE.

Eriomycopsis Asterinae Hansf.

Hansford (1942) 466.

on **Asterina Scolopiae** Doidge on *Scolopia Zeyheri*, Hogsback, *K. M. Putterill*, 30084 a.
Asterina tertia var. **africana** Doidge on *Hypoestes verticillaris*, Claridge, *Doidge*, 8998 a

Eriomycopsis Bomplandi Speg.

Hansford (1942) 468.

on **Asterina Hendersoni** Doidge on *Ilex capensis*, van Staden's Pass, *Doidge*, 10884 a.
Asterina natalitia Doidge on *Eugenia zuluensis*, Umzinto, *Wager*, 32683 d.
Irene natalensis Doidge on *Scolopia Mundtii*, Haenertsburg, *Doidge*, 1772 a.
Irene Nuxiae Syd. on *Lachnopylis floribunda*, Storms River, *Doidge*, 17181 a.
Irene scabra Doidge on *Trichocladus drinitus*, Izelini Forest, 11611 a; on *Trichocladus ellipticus* Hogsback, *Henderson*, 11338 a; Pirie Forest, *Doidge*, 12298 a.
Meliola Cryptocaryae Doidge on *Cryptocarya transvaalensis*, Woodbush, *Doidge*, 28325 a.
Meliola ganglifera Kalchbr. on *Curtisea faginea*, Woodville Forest, *Doidge*, 10933 c. Deepwalls, *Bottomley*, 32229 b.
Meliola Goniomae Doidge on *Gonioma Camassi*, Deepwalls, *Bottomley*, 32122 a.
Meliola oleicola Doidge on *Olea laurifolia*, Pirie Forest, *Doidge*, 22410 a.
Meliola torta Doidge on *Trichocladus crinitus*, Storms River, *Doidge*, 17170 c; Deepwalls, *Doidge*, 17195 c.
Meliola Woodiana Sacc. on *Canthium ventosum*, Deepwalls, *Doidge*, 17219 a.
This is possibly the conidial form of *Calonectria Ugandae* Hansf.

Eriomycopsis flagellata Hansf.

Hansford (1942) 465.

on **Meliola torta** Doidge on *Trichocladus crinitus*, Izelini Forest, *Emmett*, 9064 c.

Eriomycopsis Meliolae Hansf.

Hansford (1942) 468.

on **Meliola Toddaliae** Doidge on *Teclea natalensis*, Buccleuch, *Doidge*, 11564 b; Pirie Forest, *Doidge*, 12287 b; Alexandria, *Doidge*, 22353 b.

Eriomycopsis minima Hansf.

Hansford (1942) 465.

on **Irene Nuxiae** Syd. on *Lachnopylis floribunda*, Keurkloof Forest, *Doidge*, 17107 a
Irene Podocarpi Doidge on *Podocarpus falcatus* Storms River, 17166 b.
Irene Strophanthi Doidge on *Strophanthus speciosus*, Woodbush, *Doidge*, 1781 b. Winkle
Meliola capensis (Kalchbr. & Cooke) Theiss. & Syd., on *Hippobromus pauciflorus*, Spruit, *Pole Evans*, 1402 a.
Meliola comata Doidge on *Pyrenacantha scandens*, Woodville Forest, *Doidge*, 11020 d.
Meliola ganglifera Kalchbr. on *Curtisia faginea*, Deepwalls, *Bottomley*, 32229 c.
Meliola rhoina Doidge on *Harpephyllum caffrum*, East London, *Doidge*, 10926 b; Pirie Forest, *Doidge*, 12269 b; on *Rhus longispina*, Kowie, *Doidge*, 12360 a.

Eriomycopsis Ugandae Hansf.

Hansford (1942) 467.

on **Irene scabra** Doidge on *Trichocladus ellipticus*, Pirie Forest, *Doidge*, 12298 b.

Piricularia Oryzae Bri. & Cav.

Cardoso (1937) 154, (1938) 75, (1939) 45, (1945) 150.
on **Oryza sativa** Linn., Sul do Save, *Cardoso ;* Zavala, *Cardoso.*

Ramularia Primulae Thuem.

on **Primula polyantha** Mill., Balfour, Transvaal, *Mostert*, 28711 ; Johannesburg, *Bottomley ;* Pretoria, *Doidge*, 33995, 34044.

Ramularia Richardiae Kalchbr.

Kalchbrenner & Cooke (1880) 23 ; Sacc. Syll. Fung. IV : 217.
on **Zantedeschia aethiopica** (L.) Spreng., Bindura, *Hopkins* (Rh. 4911).
Zantedeschia albo-maculata (Hk.) Baill., Somerset East, *MacOwan 493, 1116*, 22017, Kew.

Ramularia Rumicis Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 23 ; Sacc. Syll. Fung. IV : 215.
on **Rumex nepalensis** Spreng., Somerset East, *MacOwan 1180*, Kew.

Hyalodictyae

Coniodictyum Evansii (Magn.) v. Höhn.

von Höhnel (1910 d) 590.
Hyalodema Evansii Magnus (1910) 379 ; Sacc. Syll. Fung. XXII : 1330 ; Hopkins (1938 a) 120, (1939 a) 51.
on **Zizyphus jujuba** Lam., Concession (Rh. 146).
Zizyphus mucronata Willd., Zoutpansberg, *Burtt Davy*, 92 ; Nelspruit, *Hall*, 2537 ; Fountains, *Pole Evans*, 1006 ; Garstfontein, *Pienaar*, 1214 ; Hartebeestpoort, *Doidge*, 20611 ; Johannesburg, *Krause*, 30667 ; Cramond, *Pole Evans*, 5648 ; Maritzburg, *J. M. Sim*, 15019, *Rump 438*, 30223 ; Kentani, *Pegler 1966*, 8789, Kew ; Marikana, *Pallister*, 11812 ; Buccleuch, *J. M. Sim*, 11240 ; Dundee, *Jansen*, 10095.

Scolecosporae.

Cercosporella Brassicae (Fautr. & Roum.) v. Höhn.

on **Brassica Rapa** Linn., Underberg, *Wager*, 34108 ; Himeville, *Wager*, 34109.

Cercosporella delicatissima (Kalchbr. & Cooke) Chupp.

Chupp & Doidge (1948) 884.
Cercospora delicatissima Kalchbrenner & Cooke (1880) 24.
Asteroma pullum Kalchbrenner, von Thuemen (1875) 380.
on **Priva Meyeri** Jaub. & Spach., on leaves, Boschberg, *MacOwan 1109*, Type, 22013, Kew.

Cercosporella Ekebergiae Syd.

H. & P. Sydow (1914 b) 267.
on **Ekebergia** sp., Verulam, *Pole Evans*, 6799, Type.

Cercosporella Gossypii Speg.

Ramularia areola Atk., Pole Evans (1908 c) 124 ; Cardoso (1946) 158.
on **Gossypium** sp., Quelimane, *Cardoso* ; Swaziland, *Pole Evans.*

Cercosporella herpotrichioides Fron.
on **Triticum aestivum** Linn., Jongensklip, *Gorter* (Stell. 1049).

STAUROSPORAE.

Titaea Doidgeae Hansf.
Hansford (1946 a)208 .
on **Irene Nuxiae** Syd. on *Lachnopylis floribunda*, Entabene, *Wager*, 26139 a.

HELICOSPORAE.

Helicomyces cinereus Mass.
on dead wood, Kenilworth, Cape, *Pearson* ; record at Kew.

DEMATIACEAE.

AMEROSPORAE.

Acremoniella sp.
Hopkins (1931 c) 665.
on **Gossypium** sp., bolls, Southern Rhodesia, *Hopkins*.

Acrospeira macrosporoidea (Berk.) Wiltsh.
on underground mine timber, Robinson Deep (T.R.L. 522, det. Baarn).

Basisporium gallarum Molliard
on **Zea Mays** Linn., cobs, Prinshof, *Gorter*, 35552.

Chloridium Meliolae Hansf.
on **Meliola Carissae** Doidge on *Carissa bispinosa*, Kowie, *Doidge*, 12361 b.

Coniosporium Schiraianum (Syd.) Bubak
on **Arundinella Ecklonii** Nees, Tugela Valley nr. Mont aux Sources, *Doidge*, 14164.

Fusella zambesiana Torrend
Torrend (1914) 69 ; Sacc. Syll. Fung. XXV : 758.
on bark of an unknown tree, Zumbo, *A. Cruz*.

Gomphinaria Pedrosoi (Brumpt) Dodge
Hormodendron Pedrosoi Brumpt, Simson, Harington & Barnetson (1943) 191.
on **Man** : isolated from lesions on foot and thigh of native female, Umtata.

Hormodendron cladosporioides (Fres.) Sacc.
van der Byl (1920 c) 14 ; Stevenson & Rands (1938) 275.
on sugar, Natal coast, *v. d. Byl*.

Hormodendron resinae Lindau
on coconut matting, underground in mine, New State Areas (T.R.L. 225, det. Baarn).

Lacellina graminicola (Berk. & Br.) Petch.

Hopkins (1939 a) 6.
on **Aristida** sp., Marandellas, *Hopkins*.

?**Madurella** sp.

McMurtrie (1914) 164.
on **Man** : from mycetoma with black grains, on foot of native woman, Transkei, *McMurtrie*.

Memnoniella echinata (Riv.) Gall.

sub *Stachybotrys subsimplex* Cooke, Bisby (1943) 140.
isolated from **Citrus sinensis** Osbeck, rind section from surface of sterilised fruit, Mazoe, *Bates 262*.

Menispora cylindrica Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 24 ; Sacc. Syll. Fung. III : 326.
on **Rapanea melanophleos** Mez., leaves, Somerset East, *MacOwan 1352*, Type.

Nigrospora Oryzae (Berk. & Br.) Petch

isolated from **Citrus sinensis** Osbeck, surface washings from fruit, Mazoe, *Bates 191, 206, 256*.

Nigrospora Panici Zimm.

isolated from **Passiflora edulis** Sims, base rot, Mazoe, *Bates 356*.

Nigrospora sphaerica (Petch) Sacc.

Hopkins (1938 a) 123, (1939 a) 30.
as *Epicoccum* sp., Hopkins (1931 c) 667.
on **Oryza sativa** Linn., inflorescence, Wellesley (Rh. 1303).
Citrus sinensis Osbeck, isolated from surface washings from immature fruit, Mazoe, *Bates 273, 288*.

Periconia Doidgeae Hansf.

Hansford (1944) 124, (1946 a) 213.
on **Asterina Syzygii** Doidge on *Syzygium Gerrardi*, Woodbush, *Doidge*, 17755, Type.

Periconia pycnospora Fres.

Hopkins (1938 a) 123.
on **Citrus sinensis** Osbeck, twigs, Umtali (Rh. 1005).

Periconiella velutina (Wint.) Sacc.

Sacc. Syll. Fung. IV : 275 ; Doidge & Bottomley (1931) 68 ; Nel (1942) 97.
Periconia velutina Winter (1884 b) 174.
on **Brabejum stellatifolium** Linn., foot of Table Mt., *MacOwan*, Type (Rabenh. Wint. Fung. Eur. 3181) 3522, Kew ; Berg River, nr. Wellington, *Doidge* (Syd. Fung. exot. 46) 2060, 5239, Kew ; Wellington, *Doidge*, 1036, *Stoneman*, 2238, 10999 ; Genadendal, Verwoerd (Stell. 126, v. d. Byl 1288) ; Stellenbosch, *Verwoerd* (v. d. Byl 891).

Pullularia pullulans (de Bary) Berkh.

Hopkins (1938 a) 123.
on **Vitis** sp., Salisbury, *Eyles 6699*.

Stachybotrys atra Corda
isolated from canvas waterbag, Johannesburg (T.R.L. 1477).

Stachybotrys subsimplex Cooke emend. Bisby
Bisby (1943) 138.
isolated from **Citrus sinensis** Osbeck, rind section from surface of sterilised orange, Mazoe, *Bates 259.*

Stachylidium Theobromae Turcz.
Hopkins (1943) 187.
on **Musa paradisiaca** var. **sapientum** Ktze., Pilgrim's Rest, *Cooper*, 33239 ; Pretoria, *Loidge*, 24950 ; Graskop, *Gilliam*, 25916 ; Mazoe, *Bates*.

Thielaviopsis basicola (Berk. & Br.) Ferraris
on **Cichorium Intybus** Linn., Alexandria, *Extension Officer*, 33262, *Erasmus*, 33459.

Thielaviopsis paradoxa (de Seyn.) v. Höhn.
McMartin (1937 a) 126, (1937 b) 267, (1938) 215 ; Cardoso (1939) 44, (1945) 155.
on **Amanas comosus** Merr., fruit, Bathurst, *Hean*, 33274.
Musa sp., Manhiça, *Guimarāis*.
Saccharum officinarum Linn., Natal coast, *McMartin*, 30248.

Torula herbarum Link
Hopkins (1938 a) 123.
on **Citrus** sp., roots, Salisbury (Rh. 2742).

Torula Sacchari Corda
on sterilised oats used for breeding larvae of false codlin moth, Cedara, *Ripley*.

Trichosporium purpureum Mass.
? on dead wood and bark, Krugersdorp Distr., *J. Phillips* 33429.

DIDYMOSPORAE.

Bispora effusa Peck
Lurie (1932) 275.
on wood (mine timbers) Springs Mine, *Lurie*.

Cladosporium Aphidis Thuem.
on **Aphides** on *Sorghum caffrorum*, Maritzburg, *Fuller*, 1226.

Cladosporium asteromatoides Sacc.
on **Cassia laevigata** Willd., pods, Mountain Rise, *Doidge*, 1674 : Pretoria, 918.

Cladosporium baccae Verw. & Dipp.
Verwoerd & Dippenaar (1930 a) 327.
on **Vitis vinifera** Linn., ripe berries, Stellenbosch, *Verwoerd 392*.

Cladosporium Berkheyae Syd.

H. & P. Sydow (1914 b) 267.

on **Berkheya latifolia** Wood & Evans, Fairy Glen, *Bottomley*, 23472.
Berkheya speciosa O. Hoffm., Cramond, *Pole Evans*, 6852.

Cladosporium carpophilum Thuem.

Pole Evans (1909) 446 ; Eyles (1926) 644 ; Verwoerd (1929 b) 6, (1931 a) 301 ; Doidge & Bottomley (1931) 9, 41, 47 ; Hopkins (1938 a) 122.

on **Prunus Armeniaca** Linn., fruit, Bethal, *Howell*, 15651 ; Donnybrook, *Morgan*, 28523 ; Joubertina, *Reinecke*, 30472 ; Paarl, Stellenbosch, Wellington, Bloemfontein, *Verwoerd ;* South-western Cape, *Dippenaar ;* Bembesi (Rh. 1212, 1213) *;* Umtali (Rh. 2950) *;* Lindley District, *v. d. Merwe*, 34113.
Prunus persica Sieb. & Zucc., fruit, common in the Transvaal ; Bloemfontein, *Verwoerd ;* Inyanga, *Eyles*.
Prunus persica var. **nucipersica**, Lindley Distr., *v. d. Merwe*, 34086.
Prunus salicina Lindl., ? Pretoria Distr., *Bottomley*.

Cladosporium cucumerinum Ell. & Arth.

Verwoerd (1929 b) 11.

on **Cucumis Melo** Linn., Villiersdorp, *Dippenaar* (Stell. 525).
Cucumis sativus Linn., Villiersdorp, *Verwoerd ;* Wynberg, *Dippenaar*.

Cladosporium elatum (Harz.) Nannf.

on underground mine timber, Durban Roodepoort Deep (T.R.L. 300, det. Baarn).

Cladosporium fulvum Cooke

on **Lycopersicum esculentum** Mill., Stella Bush, *Wager*, 33197 ; Cavendish, *Wager*.
Solanum auriculatum Ait., Town Bush Valley, *Doidge*, 1623 ; Maritzburg, *Pole Evans*, 1391 ; Xumeni Forest, *Morgan & Doidge*, 29831.

Cladosporium herbarum Link

Berkeley (1876 a) 176 ; Eyles (1924) 594, (1926) 639, 647 ; Doidge & Bottomley (1931) 42 ; Doidge & van der Plank (1936) 17 ; Hopkins (1938 a) 123, (1939 a) 15, 19, 41, 44, 46, 50 ; Cardoso (1939) 44.

Bnletus subflammeus Berk., on pileus, Cape, *Eaton*.
Aoena sativa Linn., leaf, Maritzburg, *Doidge & Bottomley*.
Bouhinia sp., Essexvale (Rh. 1216, 1316).
Caarca Papaya Linn., Buffelspoort, *Bottomley*, 25943, 25945.
Citrus sinensis Osbeck, fruit, Pretoria, *Doidge ;* Riversdale, S. Rhodesia (Rh. 1034).
Coffea sp., Moçambique, *Cardoso*.
Crotalaria juncea Linn., Concession (Rh. 946).
Euphorbia pulcherrima Willd., Salisbury (Rh. 1600).
Fragaria sp., fruit, Umtali (Rh. 2431).
Gossypium sp., twigs, Marandellas, Chilimanzi, *Eyles*.
Passiflora edulis Sims, Langholm Estates, *Bottomley*, 20353 ; Vryheid, *Gresty*, 26701 ; East Griqualand, *McClean*, 30448.
Phytolacca octandra Linn., Xumeni Forest, *Morgan & Doidge*, 29826.
Rosa sp., Lomagundi, Mazoe, *Eyles*.
Secale cereale Linn. Salisbury (Rh. 474).
Sorghum sudanense Stapf, Salisbury (Rh. 2980).

Triticum aestivum Linn., Barberton, *Pole Evans*, 1001 ; Salisbury, *Hopkins*.
Zea Mays Linn., Barberton, *Pole Evans*, 1001 ; Salisbury, Concession, Chakari, Gatooma, Norton, *Hopkins*.

Cladosporium laxum Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 24 ; Sacc. Syll. Fung. IV : 358.
on **Printzia pirifolia** Less., dying leaves, Somerset East, *MacOwan 1394*, Type, Kew.

Cladosporium macrocarpum Preuss.

Sacc. Syll. Fung. IV : 352.
on rotting mushrooms, e.g. Amanita sp., in South Africa.

Cladosporium Melanophloei Thuem.

von Thuemen (1877) 412 ; Sacc. Syll. Fung. IV : 358.
on **Rapanea melanophleos** Mez., leaves, near Grahamstown, *MacOwan 1255*, Type.

Cladosporium pisicolum Snyder

on **Pisum sativum** Linn., Stellenbosch, *Dippenaar ;* Verulam, *Wager ;* Muden, *Wager*.

Cladosporium tenuissimum Cooke

on **Zea Mays** Linn., glumes, Grahamstown, *Schonland*, 21981, det. Massee ; Buffelspoor *Doidge & Bottomley*, 32810.

Cladosporium Vignae Rac.

Hopkins (1938 a) 123, (1939 a) 48.
on **Vigna unguiculata** (Linn.) Walp., legumes, Concession (Rh. 811).

Cladosporium Zeae Peck.

Eyles (1926) 642 ; van der Byl (1922 d) 288 ; Doidge & Bottomley (1931) 36 ; Nel (1942) 97.
on **Zea Mays** Linn., Stellenbosch, *v. d. Byl 486* ; Salisbury, *Eyles ;* Natal and Transvaal, *Doidge & Bottomley*.

Cladosporium sp.

Eyles (1926) 651.
on **Vitis vinifera**, Salisbury, *Eyles*.

Cladosporium sp.

van der Byl (1921 e) 232.
solated from air in sugar mills, Natal coast, *v. d. Byl*.

Cordana Musae (Zimm.) v. Höhn.

Cardoso (1939) 44.
on **Musa** sp., Notocote, *Guimarāis*.

Cordana pauciseptata Preuss.

isolated from **Passiflora edulis** Sims, base rot, Mazoe, *Bates*.

Cordana sp.

Bates (1938) 57.
on **Citrus sinensis** Osbeck, fruit, Mazoe, *Bates.*

Cycloconium oleaginum Cast.

on **Olea europaea** Linn., Elsenburg, *Gorter* (Stell. 1057).

Fusicladium Crataegi Aderh.

Fusicladium pirinum (Lib.) Fuck., var. *pyracanthae.*
on **Pyracantha coccinea** Roem., Johannesburg, *Lounsbury,* 1293 ; Claremont, 1412 ; Maritzburg, *Carter,* 27700, 28315.

Fusicladium dendriticum (Wallr.) Fuck.

MacOwan (1889) 181 ; Pole Evans (1906 a) 132, (1906 b) 827 ; Lounsbury (1908) 17 ; Doidge & Bottomley (1931) 8.
Venturia inaequalis (Cooke) Wint., van der Byl (1922) 284 ; Verwoerd (1929 b) 6 ; Doidge & Bottomley (1931) 8 ; Hopkins (1938 a) 102, (1939 a) 39.
on **Pyrus malus** Linn., French Hoek, *Lounsbury,* 1223, *Verwoerd ;* Uniondale, *Kritzinger,* 17827 ; Stellenbosch, *Lounsbury, v. d. Byl, Verwoerd, du Plessis* (Stell. 785) ; Ceres, *Louw* (Stell. 1058) ; Elgin, Villiersdorp, *Verwoerd ;* Albany, Bathurst, Fort Beaufort Victoria East, Kingwilliamstown, Komgha Districts, *Lounsbury ;* Trapp's Valley, *Gunn,* 12845 ; Somerset East, *Gedye,* 24905, 24907 ; Belmont Valley, *Doidge,* 10952 ; Joubertina, *Reinecke,* 30469 ; Bankop, 1167 ; Viljoensdorp, *Viljoen,* 15052 ; Maritzburg, *Spence,* 20437 ; Mooi River, *Wager ;* Haenertsburg, *Thompson,* 20665 ; Grootspelonken, *Payne,* 21230 ; Haenertsburg, 11510, *Wolff,* 30786, 30788 ; Salisbury (Rh. 961 a).

Fusicladium Eriobotryae Cav.

Doidge & Bottomley (1931) 35.
Fusicladium dendriticum (Wallr.) Fuck. var. *Eriobotryae.*
on **Eriobotrya japonica** Lindl., fruit, Wynberg, *Cloete,* 18062.

Fusicladium fuliginosum Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 24 ; Medley Wood (1898) 12 ; Sacc. Syll. Fung. X : 599.
on **Greyia Sutherlandi** Hk. & Harv., Natal, *Medley Wood 9,* Type, 10416, Kew.

Fusicladium pirinum (Lib.) Fuck.

Pole Evans (1906 a) 139, (1906 b) 827 ; Lounsbury (1908) 17 ; Nel (1942) 97.
Venturia pirina Aderh., van der Byl (1922 d) 284 ; Verwoerd (1929 b) 21 ; Hopkins (1930) 647 ; Doidge & Bottomley (1931) 49.
as *Fusicladium dendriticum* (Wallr.) Fuck., MacOwan (1889) 181.
on **Pyrus communis** Linn., Grahamstown, *Schonland,* 21982 ; Belmont Valley, *Doidge,* 10947 ; Kingwilliamstown, *Dreyer,* 1185 ; Constantia, 40 ; Seymour, *Dewar,* 10029 ; Stellenbosch, *Lounsbury, v. d. Byl, Verwoerd* ; Uniondale, Avontuur, Swellendam, Cape Town, George, Oudtshoorn, Graaff Reinet, Uitenhage, Queenstown, Kingwilliamstown, *Lounsbury* ; French Hoek, Ceres, Groot Drakenstein, *Verwoerd* ; Elsenberg, *v. d. Byl 2* ; Haarlem, *Theron,* (Stell. 915) ; Rhodesia, *Hopkins.*

Passalora Protearum Kalchbr. & Cooke

Cooke (1890 b) 6 ; Sacc. Syll. Fung. X : 597.
on **Leucadendron argenteum** R. Br., Cape, *MacOwan.*

PHRAGMOSPORAE.

Brachysporium Faureae P. Henn.

P. Hennings (1903) 169 ; Sacc. Syll. Fung. XVIII : 592.
on **Faurea speciosa** Welw., Kutsi, *Baum 889*, Type, Kew.

Brachysporium pulviniforme Syd.

H. & P. Sydow (1914 b) 267 ; Sacc. Syll. Fung. XXV : 834.
on **Rhus tomentosa** Linn., St. James, *Pole Evans*, 5575.

Clasterosporium carpophilum (Lév.) Aderh.

Hopkins (1939 a) 35.
as *Cladosporium carpophilum* Thuem., Pole Evans (1913 b) 172 ; Doidge & Bottomley (1931) 5, 9, pro parte.
Coryneum Beijerinckii Oud., Verwoerd & du Plessis (1932) 313.
on **Prunus armeniaca** Linn., Somerset East, *Scott, Stegman & Mills*, 33927.
Prunus communis Fritsch, twigs and leaves, Henley-on-Klip, *Hendey*, 24335 ; Grahamstown, *Kelly*, 10034 ; Elsenberg, *Dippenaar* (Stell. 840).
Prunus persica Sieb. & Zucc., twigs and leaves, Pretoria, *Leech*, 25444 ; Potgietersrust, *Davis*, 21577 ; Johannesburg, *Derksen*, 17031 ; Rosebank, *Doidge*, 1216 ; Orchard Siding, *Dicey*, 2545, 18080 ; The Willows, *v. d. Waal & Reesse*, 25337 ; Paarl, *du Plessis* (Stell. 598).

Clasterosporium Celastri (Thuem.) Sacc.

Saccardo Syll. Fung. IV : 390.
Sporidesmium Celastri Thuem., von Thuemen (1878 a) 357.
on **Gymnosporia buxifolia** Szysz., spines of dying branches, Boschberg, *MacOwan 1282*, Type.

Clasterosporium clavatum (Lév.) Sacc.

Doidge & Bottomley (1931) 19.
on **Dactylis glomerata** Linn., Skinner's Court, *Sampson*, 115.

Clasterosporium densum Syd.

H. & P. Sydow (1912 c) 444 ; Sacc. Syll. Fung. XXV : 808.
on **Faurea speciosa** Welw., Lemana, *Doidge*, 1788, Type.

Curvularia intermedia Boedijn

isolated from **Citrus sinensis** Osbeck, surface washings from fruit, Mazoe, *Bates 284.*

Curvularia lunata (Wakker) Boedijn

Doidge & van der Plank (1936) 18.
isolated from
Citrus sinensis Osbeck, rotting fruit, Pretoria, *Doidge* : surface washings from fruit, Mazoe, *Bates 283.*
? from **Triticum aestivum** Linn., Bethlehem, *Sellschop*, 30495.

Curvularia maculans (Bancroft) Boedijn

isolated from **Citrus sinensis** Osbeck, surface washings from fruit, Mazoe, *Bates 278.*

Curvularia spicifera (Bain.) Boedijn

isolated from—

Cynodon transvaalensis Burtt Davy, Johannesburg, *Roderick*, 30246.
Triticum aestivum Linn., Bethlehem, *Sellschop*, 30494.
Man : isolated from several cases of eczema, probably a contaminant, Johannesburg, *H. I. Lurie.*

Curvularia sp.

isolated from **Triticum aestivum** Linn., Bethlehem, *Sellschop*, 30494.

Dendryphium MacOwanianum Thuem.

Von Thuemen (1877) 412 ; Kalchbrenner (1882 b) 27 ; Sacc. Syll. Fung. IV : 490.
on **Cuscuta cassytoides** Nees, Boschberg, *MacOwan 1285*, Type (S.A.M. 35203) Kew.

Helminthosporium accedens Syd.

H. & P. Sydow (1904 b) 173 ; Sacc. Syll. Fung. XVIII : 589.
on **Dolichos Baumii** Harms., Moulonge, *Baum*, Type.

Helminthosporium bicolor Mitra

on **Sorghum halepense** Pers., Prinshof, *Codd*, 30432.
Triticum aestivum Linn., Clarens, *Sellschop*, 30458 ; Bethlehem, *Sellschop*, 30496.

Helminthosporium Brizae Nisikado

on **Briza maxima** Linn., Port Elizabeth, *K. M. Putterill*, 28530.

Helminthosporium capense Thuem.

von Thuemen (1876 b) 570 ; Hansford (1943) 47, (1946 a) 214.
Cercospora capensis (Thuem.) Sacc. Syll. Fung. IV : 469.
on **Irene calostroma** (Desm.) v. Höhn., on *Cliffortia strobilifera*, van Staden's Pass, *Pole Evans*, 11442 a.
Irene inermis (Kalchbr. & Cooke) Theiss. & Syd., on *Buddleia auriculata*, Marwaqa Forest, *Doidge*, 30901 a.
Irene natalensis Doidge on *Scolopia Mundtii*, Louis Trichardt, *V. A. Putterill*, 11827 a.
Irene Peddieae Doidge on *Peddiea africana*, Woodbush, *K. M. Putterill*, 32465 b.
Irene Peglerae Doidge on *Halleria lucida*, Deepwalls, *Doidge*, 17200 b, 17201 a.
Irene speciosa Doidge on *Gymnosporia* sp., Woodbush, *Doidge*, 1740 a.
Meliola Carissae Doidge on *Carissa bispinosa*, Langholm Estates, *Doidge*, 12341 a, Kowie, *Doidge*, 12361 a.
Meliola ganglifera Kalchbr. on *Curtisia faginea*, Woodville Forest, *Doidge*, 10933 b ; Storms River, *Doidge*, 17180 b.
Meliola littoralis Syd., on *Canthium* sp., Deepwalls, *Doidge*, 17196 b ; on *Gardenia globosa*, Umgeni, *Medley Wood*, 9038 a ; on *Psychotria capensis*, Umkomaas, *Bottomley*, 11891 b.
Meliola Loxostylidis Doidge on *Loxostylis alata*, Mayville, *Medley Wood*, 9026 b ; van Staden's Pass, *Doidge*, 10921 a.
Meliola oleicola Doidge on *Olea laurifolia*, Tabankulu, *D.F.O.*, 9103 c ; Buccleuch, *Doidge*, 11557 b.

Meliola Osyridis Doidge on *Osyris abyssinica*, Grahamstown, *MacOwan* **1256** : on *Rhoicarpus capensis*, Langholm Estates, *Doidge*, 12349 b ; van Staden's Pass, *Doidge*, 17253 b.
Meliola petiolaris Doidge on *Olea laurifolia*, Buccleuch, *Doidge*, 11558 b.
Meliola rhoina Doidge on *Harpephyllum caffrum*, Kentani, *Pegler*, 8851 b ; Howieson's Poort, *Doidge*, 22353 a.
Meliola Toddaliae Doidge on *Teclea natalensis*. Pirie Forest, *Doidge*, 12287 a ; Alexandria, *Doidge*, 22353 a.
Meliola Woodiana Sacc. on *Canthium ventosum*, van Staden's Pass, *Doidge*, 10880 b ; Deepwalls, *Doidge*, 17219 c ; Durban, *Bottomley*, 11385 b.
Meliola sp. on *Cunonia capensis* Linn., nr. Grahamstown, *MacOwan* **1262**, Type (S.A.M. 35202) 20771 b, Type collection.

Helminthosporium Cynodontis Marign.

Smith & Putterill (1932) 294.
? sub *Helminthosporium sativum* Pam. King & Bakke, Hopkins (1938 a) 123, (1939 b) 16.
on **Cynodon Bradleyi** Stent, Redan, *Wilson*, 29976 ; Pretoria, *Bottomley*, 30242.
Cynodon Dactylon Linn., Pilgrim's Rest, *Gardner*, 27359 ; Grahamstown and Pretoria, *N. J. G. Smith & K. M. Putterill.*
Cynodon transvaalensis Burtt Davy, Bulawayo (Rh. 2260).

Helminthosporium dematoideum Bubak & Wrobl.

on **Cynodon Bradleyi** Stent, Pretoria, *v. d. Merwe*, 28779, *K. M. Putterill*, 30241.
Cynodon Dactylon Linn., Pilgrim's Rest, *Gardner*, 27359 ; Pretoria, *Naude*, 27358.
Cynodon transvaalensis Burtt Davy, Johannesburg, *Roderick*, 30250 ; Pretoria, *K. M. Putterill*, 30243.
Triticum aestivum Linn., Ferreira, *Sellschop*, 30498.

Helminthosporium Dolichi Syd.

H. & P. Sydow (1904 b) 173 ; Sacc. Syll. Fung. XVIII : 588.
on **Dolichos euryphyllus** Harms, between Kulei and Kutsi, *Baum.*

Helminthosporium dorycarpum Mont. (group)

Hansford (1946 a) 214.
on **Irene atra** Doidge on *Eugenia zuluensis*, Xumeni Forest, *Doidge*, 32234 b.
Irene natalensis Doidge on *Scolopia Mundtii*, Haenertsburg, *Doidge*, 17772 c.
Irene Peddieae Doidge on *Peddiea africana*, Woodbush, *K. M. Putterill*, 32465 c.
Irene Podocarpus Doidge on *Podocarpus Henkelii*, Xumeni Forest, *Doidge*, 32216 a.
Irene Rinoreae Doidge on *Rinorea natalensis*, Karkloof, *Doidge*, 14969 a.
Irene scabra Doidge on *Trichocladus ellipticus*, Pirie Forest, *Doidge*, 12298 c.
Meliola bifida Cooke on *Osyridicarpus natalensis*, Winter's Kloof, *Doidge*, 9020 a.
Meliola comata Doidge on *Pyrenacantha scadens*, Woodville Forest, *Doidge*, 11020 b ; Storm's River, *Doidge*, 17192 a.
Meliola Excoecariae Doidge on *Sapium Simii*, Buccleuch, *Doidge*, 11566 a.
Meliola furceillata Doidge on *Allophylus monophyllus*, Buccleuch, *Doidge*, 11577 a.
Meliola oleicola Doidge on *Olea foveolata*, Kowie, *Doidge*, 12364 c ; Knysna, *Bottomley* 32269 a.
Meliola torta Doidge on *Trichocladus ellipticus*, Deepwalls, *Doidge*, 17195 a.

Helminthosporium gramineum Rabenh.

Pole Evans (1906 a) 133 ; Smith & Rattray (1930) 344 ; Smith & Putterill (1933) 204.

on **Hordeum vulgare** Linn., Branddraai, Lydenburg, *Sellschop*, 30861, 30862 ; Ayleshury, *N. J. G. Smith*, 25889 ; Grahamstown, *N. J. G. Smith*, 25888 ; Albany, Knysna and Bathurst districts, *Smith & Rattray ;* Stellenbosch, *Dippenaar* (Stell. 855, 856).

Helminthosporium halodes Drechsl.

on **Triticum aestivum** Linn., Brits, *K. M. Putterill*, 30434.

Helminthosporium Leersii Atk.

on Urochloa helopus Stapf, Barberton, *Wager*, 26148 ; Nelspruit distr., *Liebenberg*, 26182.

Helminthosporium leucostylum Drechsl.

Smith & Putterill (1933) 198.

on **Eleusine indica** (L.) Gaertn., Acton Homes, *L. A. Doidge*, 25908 ; White River, *Cazalet*, 23689 ; Vereeniging, *L. C. Turner*, 10036.

Helminthosporium Miyakei Nisikado

on **Eragrostis curvula** Nees, Maritzburg, *T. R. Sim*, 7761.

Helminthosporium Oryzae Breda de Haan

Cardoso (1945) 150.

on **Oryza sativa** Linn., Moçambique *Cardoso ;* Chonguene, *Ribeiro Mendes* ; Bilene, *Oliveira.*

Helminthosporium Palmetto Gerard

? on **Meliola palmicola** Wint., on *Phoenix reclinata*, Port Shepstone, *Pole Evans*, 5607 a.

Helminthosporium Ravenelii Berk. & Curt.

van der Byl (1926 c) 289 ; Hopkins (1938 a) 123, (1939 a) 45.

Helminthosporium crustaceum, P. Henn. Nel (1942) 97.

on **Sporobolus capensis** (Willd.) Kunth., on inflorescence, Harden Heights, *Pole Evans*, 1453 ; Cedara, *Baker*, 6692 ; Mooi River, *Campbell*, 20371 ; Tweedie, *Pole Evans*, 9764, *Mogg*, 10065, 11643 ; Mid-Illovo, *v. d. Byl 74*, 9769, *Power*, 31783 ; Eshowe, *Parkins*, 2201 ; Lemana, *Doidge*, 1826 ; Woodbush, *v. d. Byl ;* Nelspruit, *Pienaar*, 10097 ; Kentani, *Pegler 1916*, 6921, Kew ; Durban, *v. d. Byl 236 ;* Stella Bush, *v. d. Byl*, 32003.

Sporobolus fimbriatus Nees, Kentani, *Pegler*, 6667.

Sporobolus pyramidalis Beauv., Xumeni Forest, *Morgan & Doidge*, 29835 ; Salisbury, *Eyles 2087*, 13995 ; Bulawayo (Rh. 1520) ; Concession (Rh. 1625) ; Shamva (Rh. 2681).

Helminthosporium rostratum Drechsl.

on **Triticum aestivum** Linn., Bethlehem, *Sellschop*, 30456 ; Ferreira, *Sellschop*, 30460.

Helminthosporium Sacchari (v. Breda) Butler

van der Byl (1921 h) 123 ; Stevenson & Rands (1938) 273 ; McMartin (1940) 653.

on **Saccharum officinarum** Linn., coast of Natal and Zululand, *v. d. Byl ;* Mt. Edgecombe, *McMartin*, 30245, 30988.

Helminthosporium sativum Pammel King & Bakke

Smith & Rattray (1930) 344 ; Doidge & Bottomley (1931) 11, 67 ; Verwoerd (1931 a) 301 ; Hopkins (1938 a) 123, (1939 a) 7, 16, 46 (1943) 185.

on **Hordeum vulgare** Linn., Stone's Hill, *N. J. G. Smith*, 25890 ; Lydenburg, *Sellschop*, 30860 ; Louis Trichardt, *Sellschop*, 30857, 30858, 30859 ; Bloemfontein, *Verwoerd ;* Grahamstown, Stellenbosch, Bathurst, Komgha, *Smith & Rattray ;* Umtali, *Hopkins*.

Triticum aestivum Linn., Bethlehem, *Sellschop*, 30493, 30497 ; Lydenburg, *Pons*, 30421, 30990, 30991 ; Chakari (Rh. 1194).

?on **Bambusa** sp., Salisbury (Rh. 1709).

Helminthosporium sigmoideum Cav.

on **Oryza sativa** Linn., Moçambique, *Cardoso*.

Helminthosporium stenospilum Drechsl.

McMartin (1940) 653.

on **Saccharum officinarum** Linn., Mt. Edgecombe, *McMartin*.

Helminthosporium teres Sacc.

Smith & Rattray (1930) 343 ; Smith & Putterill (1932) 290 ; Cardoso (1939) 45.

on **Hordeum vulgare** Linn., Cedara, Stellenbosch, Port Elizabeth, Mossel Bay, between Heidelberg, Cape, and Caledon, *Smith & Rattray ;* Grahamstown, *N. J. G. Smith*, 25885, Kew ; Pretoria, 693 ; Elim, Cape, *Fletcher*, 8411 ; Belmont Valley, *N. J. G. Smith*, 25884 ; Swellendam, *N. J. G. Smith*, 25886, 25887 ; Louis Trichardt, *Sellschop*, 30377, 30855, 30856 ; Moçambique, *Cardoso ;* Umbeluzi, *Frias*.

Helminthosporium turcicum Pass.

Burtt Davy (1905) 286 ; Pole Evans (1906 a) 135 ; Doidge & Bottomley (1931) 36 ; Verwoerd (1931 a) 301 ; Hopkins (1938 a) 123, (1939 a) 30, 50, 80 ; Nel (1942) 97.

on **Sorghum caffrorum** Beauv., Bloemfontein, *Verwoerd ;* Dalton, *Angus* (v. d. Byl 235) 31789.

Sorghum halepense Pers., Prinshof, *K. M. Putterill*, 30431, 30432, 30710, *Liebenberg*, 28600 ; Ashburton, *Pope Ellis*, 10099.

Sorghum sudanense Stapf, Cedara, *Staples*, 15462 ; Maritzburg, *Erxleben*, 15448 ; Prinshof, *K. M. Putterill*, 30709 ; Durban, *v. d. Byl 235 ;* Southern Rhodesia, *Mundy*, Kew.

Sorghum verticilliflorum Stapf, Dalton, *Angus*, 9729 ; Prinshof, *K. M. Putterill*, 30708.

Zea Mays Linn., Southern Rhodesia, *Mundy*, 890 ; Gwelo, Salisbury, Simoona, Banket, Concession, Shamva, Lonely Mine, Norton, *Hopkins ;* Cedara, *Fisher*, 2187 ; Naboomspruit, *McKay*, 20386 ; Hunter's Road, *Hopkins* (Rh. 189).

? on **Panicum novemnerve** Stapf, Salisbury (Rh. 796).

Helminthosporium sp.

Chupp & Doidge (1948) 890.

Cercospora phaeocarpa Mitter, Hopkins (1943) 180.

on **Bauhinia Thonningii** Schum., Concession, *Hopkins* (Rh. 1621).

Helminthosporium sp.

on **Gymnosporia senegalensis** Loes., Mazoe, *Hopkins* (Rh. 4087).

Helminthosporium sp.

Verwoerd (1929 b) 7.

on **Bambusa Balcooa** Roxb., Stellenbosch, *Verwoerd.*

Helminthosporium sp.

on **Man** : isolated as a contaminant from cases of athlete's foot, Johannesburg, *H. I. Lurie & N. J. G. Smith.*

Heterosporium Avenae Oud.

on **Avena sativa** Linn., Swellendam (Stell. 1082).

Heterosporium echinulatum (Berk.) Cooke

Pole Evans (1908 e) 123 ; Verwoerd (1929 b) 9, (1931 a) 301 ; Doidge & Bottomley (1931) 16.

on **Dianthus caryophyllus** Linn., Natal, *Fuller*, 1046 ; Gillitts, *Cook*, 25505 ; Durban, *McClean*, 30505 ; Uitenhage, *Schmutz*, 25474, 25479 ; Bloemfontein, *Verwoerd ;* Stellenbosch, Somerset West, *Verwoerd.*

Heterosporium gracile (Wallr.) Sacc.

Verwoerd (1929 b) 14, (1931 a) 301 ; Doidge & Bottomley (1931) 31 ; Nel (1942) 97.

on **Iris germanica** Linn., Pretoria, *Doidge*, 20401, 25158, *Bottomley*, 33978 ; Durban, *McClean*, 25911 ; Brandfort, *Verwoerd* (Stell. 222, v. d. Byl 2184) ; Stellenbosch, *Verwoerd.*

Heterosporium groenlandicum Allesch.

on **Papaver nudicaule** Linn., Pretoria, *Doidge*, 26336.

Heterosporium Munduleae Syd.

H. & P. Sydow (1912 a) 45 ; van der Byl (1926 c) 289.

on **Mundulea sericea** (Willd.) Greenway, Zoutpansberg, *Doidge*, 1812.

Heterosporium Ornithogali Klotzsch

U.S. Dept. Agric. (1932) 354, (1942) 44.

on **Ornithogalum thyrsoides** Jacq. on plants from South Africa, intercepted in the United States of America ; not recorded locally.

Heterosporium Secalis Dippenaar

Dippenaar (1931 c) 286 ; Nel (1942) 97.

on **Secale cereale** Linn., Stellenbosch, *Dippenaar* (Stell. 982, v. d. Byl 2610) ; Stellenbosch, *Verwoerd* (Stell. 419).

Spondylocladium atrovirens Harz.

U.S. Dept. Agric. (1928) 229.

on **Solanum tuberosum** Linn., on tubers from South Africa intercepted in the United States of America.

Stigmina verruculosa Syd.

H. & P. Sydow (1912 c) 444 ; Doidge & Bottomley (1931) 66.

on **Acacia mollissima** Willd., leaves, Harden Heights, *Pole Evans*, 1382, 5647, Type ; Sevenoaks, *Osborn*, 23199.

DICTYOSPORAE.

Alternaria Allii Nolla

Cardoso (1945) 156.

on **Allium Cepa** Linn., leaves, Umbeluzi, *Grilo ;* Mocuba, *Grilo.*

Alternaria Brassicae (Berk.) Bolle

Doidge & Bottomley (1931) 14, 17 ; Hopkins (1943) 180.

on **Brassica oleracea** Linn., general in Southern Rhodesia, *Hopkins.*

Brassica oleracea var. **Botrytis** Linn., Perseverance, 28480 ; Godwan River, Warner Beach, *Doidge & Bottomley ;* Salisbury, Glendale, Msoneddi, Shamva, *Hopkins.*

Brassica oleracea var. **gemmifera** DC., Inyanga, *Hopkins.*

Var. **Phaseoli** Brum.

Hopkins (1938 a) 121.

on **Canavalia ensiformis** DC., Salisbury (Rh. 1707).

Alternaria circinans (Berk. & Curt.) Bolle

Hopkins (1938 a) 121, (1939 a) 8, 17.

on **Brassica oleracea** Linn., Darwindale (Rh. 312) ; Salisbury (Rh. 768, 819) ; Essexvale (Rh. 1315).

Alternaria Citri Ellis & Pierce

Doidge (1929 a), (1929 b) 320 ; Doidge & Bottomley (1931) 34, 44 ; Doidge & van der Plank (1936) 15 ; Bates (1937 a) 157, (1937 b) 176, 192, 206 ; Cardoso (1937) 155, (1938) 74 ; Hopkins (1938 a) 121, (1939 a) 11, 12, 13 (1943) 182, (1945) 151 ; Wager (1939 a).

on **Citrus aurantifolia** Sw., Mazoe, Bates ; Verulam, *Wager*, 32509.

Citrus Limonia Osbeck, Buffelspoort, *Turner*, 20349 ; Verulam, *Wager*, 32508 ; Marikana, *Doidge ;* Stellenbosch, *Verwoerd* (Stell. 148) ; Salisbury (Rh. 1601, 2381) Kew ; Macheke (Rh. 2285) ; Bulawayo (Rh. 3350) ; Mazoe, Bates ; Sul do Save, *Cardoso.*

Citrus nobilis var. **deliciosa** Sw., Mazoe, *Bates* (Rh .214).

Citrus sinensis Osbeck, Steenbokfontein, *Poultney*, 25446 ; common on fruit in the Union of South Africa, *Doidge*) Moorreesburg, *Visser* (Stell. 84) : Sul do Save, *Cardoso ;* Mazoe, *Bates ;* Xinavane, *Guimarãis.*

Citrus sp., Moçambique, *Cardoso.*

Alternaria crassa Rands

Hopkins (1938 a) 121, (1939 a) 17, (1943) 184 ; Nel (1942) 96.

on **Datura Metel** Linn., Pretoria, *Pole Evans*, 11509.

Datura Stramonium Linn., Parys, *Mansveldt*, 18104 ; Nelspruit, *Liebenberg*, 26067 ; Sinoia (Rh. 533) ; Salisbury (Rh. 1493, 1761) ; Mtepetepa (Rh. 1850) ; Shamva (Rh. 2841) ; Southern Rhodesia, *Hopkins* (v. d. Byl 2540).

Datura Tatula Linn., Southern Rhodesia, *Hopkins.*

Alternaria cucumerina (Ell. & Everh.) Elliott

Macrosporium cucumerinum Ell. & Everh., Doidge & Bottomley (1931) 39.

on **Citrullus vulgaris** Schrad., Fort Beaufort, *Wager ;* Stellenbosch & Hermanus, *Dippenaar.*

Cucumis Melo Linn., Kraaifontein, Cape.

Cucurbita Pepo Linn., Umhlanga Rocks, *Wager.*

Alternaria Dianthi Stev. & Hall.

Doidge & Bottomley (1931) 17.

on **Dianthus caryophyllus** Linn., Maritzburg, Schultz, 29715 ; Durban, *Wager*, 33273 ; Grahamstown, *N. J. G. Smith*, 26361 ; Duivelskloof, *Graham*, 25354 ; Tzaneen, *Muller*, 33757 ; Port Elizabeth, *Venter*, 34156.

Alternaria gossypina (Thuem.) Hopkins

Hopkins (1931 a) 136, (1938 a) 121, (1939 a) 21.

? as *Alternaria* sp., Cardoso (1938) 75 ; Doidge & Bottomley (1931) 20.

on **Gossypium** sp., general in Southern Rhodesia, *Hopkins ;* ? Sul do Save, *Cardoso.*

Alternaria herculea (Ell. & Mart.) Elliott

U.S. Dept. Agric. (1937) 80.

on **Brassica oleracea** Linn., intercepted in United States on material from South Africa.
Brassica rapa Linn., Cape Flats, *Dippenaar.*

Alternaria longipes (Ell. & Everh.) Tisd. & Wadk.

Mason (1928 a) 19 ; Doidge & Bottomley (1931) 62 ; Hopkins (1931 b) 58, 82, (1938 a) 121, (1939 a) 27.

Macrosporium longipes Ell. & Everh. Verwoerd (1929 b) 27 ; Moore (1926) 452.

on **Nicotiana Tabacum** Linn., Zwartkopjes, *Zwaard*, 18102 ; Barberton, *Gass*, 17056 ; Piet Retief, 16996 ; Kwambonambi, *Curphy*, 15670 ; Oudtshoorn, *Verwoerd ;* general in Southern Rhodesia, *Hopkins.*

Alternaria macrospora Zimm.

Hopkins (1938 a) 121, (1939 a) 6, 9, 20, 22, 51, (1943) 181.

? as *Macrosporium* sp., Verwoerd (1931 a) 301 ; Cardoso (1938) 76.

on **Aster** sp., Salisbury (Rh. 1797).

?on**Callistephus chinensis** Nees, Salisbury, *Hopkins.*

on **Carthamus tinctorius** Linn., Salisbury, *Hopkins.*

Gerbera Jamesoni Bolus, Darwendale (Rh. 1395) ; Salisbury (Rh. 1499, 1788).

Gossypium sp., Salisbury (Rh. 1790, 2041) ; ? Sul do Save, *Cardoso.*

Zinnia sp., Salisbury (Rh. 1909, 3161, 3400) ; ? Bloemfontein, *Verwoerd.*

Alternaria oleracea Milbrath

on **Brassica oleracea** Linn., Verulam, *James* (comm. Wager).

Alternaria Solani (Ell. & Mart.) Jones & Grout

Doidge (1915 b) 53 ; van der Byl (1922 d) 288, (1926 c) 289 ; Doidge & Bottomley (1931) 52, 63 ; Verwoerd (1931 a) 301 ; Hopkins (1930) 651, (1938 a) 121, (1939 a) 25, 42, 43 ; Cardoso (1937) 154, (1938) 75, (1939) 45, (1945) 158.

Macrosporium Solani Ell. & Mart., Verwoerd (1929 b) 23, 27 ; Nel (1942) 97.

on **Lycopersicum esculentum** Mill., Gillitts, *Wager*, 33200 ; widespread and common in the Union of South Africa, *Doidge & Bottomley ;* Stellenbosch, *v. d. Byl 639, Verwoerd ;* Cape Town, Wynberg, Claremont, Kenilworth, Paarl, Wellington, *Verwoerd ;* Bloemfontein, *Verwoerd ;* Clanwilliam, *Dippenaar*, (Stell. 1012) ; Tzaneen, *van Velden*, 33551 ; Southern Rhodesia, *Hopkins.*

Solanum melongena Linn. var. **esculentum** Nees, Hartebeestpoort, *Plowes*, 32783 ; Salisbury, *Hopkins.*

Solanum tuberosum Linn., Cedara, 23485 ; Camperdown, *Gavin*, 31987 ; Groenkloof, *Doidge*, 9696 ; Umhlanga Rocks, *Wager ;* Sarnia, *Wilks ;* Ravenshill, *Eland*, 6596 ; Settlers, 1273 ; Belfast, *Lewis*, 63 ; Alkmaar, *Hamilton Fowle*, 549 ; Pretoria, *Hean*,

30646 ; Grahamstown, *Mally*, 21986, *Dewar*, 201 ; Fort Beaufort, *Mildenhall*, 10118 ; Stellenbosch, Paarl, Wellington, Ceres, Kuilsrivier, *Verwoerd ;* Bloemfontein, *Verwoerd ;* Salisbury, Gwebi, Eldorado, Umtali, Hunyani, *Hopkins ;* Xalasi, *Howard*, 742 ; Sul do Save, *Cardoso ;* Manhiça, Cherinda, *Pinheiro & Cardoso :* Moamba, *Cabral ;* Umbeluzi, *Oliveira*.

Alternaria Solani (group).

Hopkins (1930) 416, (1938 a) 122, (1939 a) 26, 27.

on **Nicandra physaloides** Gaertn., Mtepetepa (Rh. 1848) ; Salisbury (Rh. 1895).
Nicotiana Tabacum Linn., Concession, Salisbury, Marandellas, Bromley, *Hopkins*.
Physalis peruviana Linn., Rhodesia, *Hopkins*.

Alternaria tabacina (Ell. & Everh.) Hori

Eyles (1926) 650 ; Doidge & Bottomley (1931) 63 ; Hopkins (1931 b) 57, 83.
Macrosporium tabacinum Ell. & Everh., Eyles l.c. ; Verwoerd (1929 b) 27 ; Nel (1942) 97.

on **Nicotiana rustica** Linn., Natal, 31996.
Nicotiana Tabacum Linn., Barberton, *Wilson*, 6578 ; Rustenburg, 18134 ; Neethling's Hof, *Louw*, 9698 ; Oudtshoorn, *Verwoerd* (v. d. Byl 1241) ; George, Stellenbosch, *Verwoerd ;* Marandellas, Lydiate, Salisbury, *Eyles*.

Alternaria tenuis Nees

Mason (1928) 20 ; Doidge (1929 a), (1929 b) 322 ; Doidge & Bottomley (1931) 77, 85, (1938 a) 122, (1939 a) 4, 6, 28.

on **Allium Cepa** Linn., leaf, Chipinga (Rh. 2696) ; Salisbury, *Hopkins*.
Avena sativa Linn., leaf, Lowdale (Rh. 259).
Citrus Limonia Osbeck, Marikana, *Doidge*.
Citrus nobilis Lour. var. **deliciosa** Sw., fruit from southern Rhodesia, purchased in England, *Wiltshire*.
Citrus sinensis Osbeck, fruit, Southern Rhodesia.
Coffea sp., Concession (Rh. 906).
Datura Stramonium Linn., capsule, Salisbury (Rh. 1658).
?on**Gymnosporia buxifolia** Szysz., Kentani, *Pegler 2344*, Kew.
on **Nicotiana Tabacum** Linn., general in Southern Rhodesia, *Hopkins*.
Triticum aestivum Linn., glumes, Stellenbosch, *Gorter*, 33352.

Alternaria Violae Gall. & Dors.

Doidge & Bottomley (1931) 65 ; Hopkins (1938 a) 122, (1939 a) 16, 48.

on **Viola odorata** Linn., Pretoria, *Pole Evans*, 58, 961 ; Irene, *Pole Evans*, 93 ; Kentani, *Pegler 1906*, 6572, Kew ; Umtali (Rh. 1935) ; Salisbury (Rh. 1945).
?on**Dahlia pinnata** Cav., Salisbury (Rh. 1599).

Alternaria sp.

Hopkins (1930) 528.

on **Avena sativa** Linn., Southern Rhodesia, *Hopkins*.

Alternaria spp.

Doidge & van der Plank (1936) 15.

isolated from **Citrus sinensis** Osbeck, decaying fruit, Pretoria, *Doidge*.

Alternaria sp.

Hopkins & Bacon (1938) 458.
on **Pyrus malus** Linn., fruit, Southern Rhodesia.

Coniothecium chomatosporum Corda

Pole Evans (1907 e) 680 ; van der Byl (1915 b) 649 ; Verwoerd (1929 b) 5, (1931 a) 301 ; Doidge & Bottomley (1931) 6, 49 ; Hopkins (1938 a) 123, (1939 a) 38 ; Hopkins & Bacon (1938) 456 ; Cardoso (1937) 155, (1939) 44.
on **Pyrus communis** Linn., Westminster, *Bottomley*, 20618 ; Inyanga (Rh. 3750).
Pyrus malus Linn., Johannesburg, *Rocher*, 21935, *Brinton*, 17300, *Schoeman*, 19868 ; Boons, *v. d. Bergh*, 19841 ; Florida, *Joubert*, 25934 ; Magaliesberg, *Mason*, 25457, *Orpen*, 19850 ; Henley-on-Klip, *Woodhouse*, 23680, *Life*, 25456, *Hendey*, 26640 ; Amersfoort, *Phillips*, 15537 ; De Deur, *Woodhouse*, 27659 ; Bethlehem, 33371 ; Lauterwater, *Bottomley*, 33267, *Haines*, 33759 ; Carlton, *Harris*, 18075 ; Misgund, *Reinecke*, 33464 ; Stellenbosch, George, *Verwoerd ;* Salisbury (Rh. 1114, 1459) ; Cashel (Rh. 2437, 3437) ; Melsetter (Rh. 3439, 3449) ; Sul do Save, *Cardoso ;* Lourenço Marques, *Cardoso*.

Coniothecium Citri McAlp.

Hopkins (1930) 417, (1938 a) 123.
on **Citrus Limonia** Osbeck, Rhodesia, *Hopkins*.
Citrus sinensis Osbeck, Eldorado (Rh. 662).

Coniothecium MacOwanii Sacc.

Sacc. Syll. Fung. IV : 512 ; van der Byl (1922) 288 ; Hopkins (1938 a) 123 ; Nel (1942) 97.
Coniothecium punctiforme Winter (1885 b) 33, not Corda.
on **Protea angolensis** Welw., Salisbury, *Eyles 6692*.
Protea grandiflora Thunb., at foot of Table Mt., MacOwan, Type ; Kalk Bay, *Mitchell*, 17075 ; Klapmuts, *v. d. Byl 113, 529*, 6847, 31798 ; Glencairn, *Glover ;* 9768.
Protea sp., Ceres, *Reinecke* (v. d. Byl 923) Kew.
Leucospermum conocarpum R. Br., Stellenbosch, *Verwoerd* (Stell. 28).

Coniothecium scabrum McAlp.

V. A. Putterill (1923 b) 405 ; Eyles (1926) 636 ; Doidge & van der Plank (1936) 17 ; Hopkins (1937 a) 123, (1939 a) 13.
on **Citrus aurantium** Linn., fruit, Stellenbosch, *V. A. Putterill*.
isolated from **Citrus sinensis** Osbeck, Pretoria, *Doidge*, 28273 ; Mazoe, *Eyles*.

Coniothecium sp.

Eyles (1926) 641.
on **Gunnera** sp., leaf, Odzani, *Eyles*.

Fumago vagans Pers.

Hopkins (1938 a) 123, (1939 a) 8, 22, 39.
on **Gossypium** sp., Salisbury (Rh. 2040).
Prunus salicina Lindl., Rusapi, *Eyles 6682*.
Pyrus malus Linn., Salisbury, *Hopkins*.
Widdringtonia sp., Marandellas (Rh. 3505).

Macrosporium Camelliae Cooke & Mass.

Dippenaar (1931 c) 288.
on **Camellia japonica** Linn., Stellenbosch, *Dippenaar* (Stell. 400).

Macrosporium carotae Ell. & Langl.

as *Alternaria Brassicae* (Berk) Sacc., Doidge & Bottomley (1931) 17.
? as *Alternaria circinans* (Berk. & Curt.) Bolle, Hopkins (1938 a) 121.
? as *Alternaria macrospora* (group) Hopkins (1941) 1, (1943) 184.
on **Daucus carota** Linn., var. **sativa** DC., Cedara, *Fisher*, 1168, *Staples*, 15435 ; Kilgobbin, *Fannin* (v. d. Byl 582) 31831 ; Merensky, *Dekenah*, 30244 ; Plaston, *Grobler*, 30921 ; Umbogintwini, Cavendish, Verulam, *Wager ;* Horns Nek, *Pont*, 34205 ; ? Selukwe (Rh. 1727) ; ? general in Southern Rhodesia, *Hopkins.*

Macrosporium Citri McAlp.

Eyles (1926) 636 ; Verwoerd (1931 a) 301 ; Nel (1942) 97.
on **Citrus sinensis** Osbeck, bark, Mazoe, *Eyles.*
Citrus spp., Bloemfontein, *Verwoerd ;* Stellenbosch, Verwoerd (v. d. Byl 1312), *Brain* (v. d. Byl 2111).

Macrosporium cladosporioides Desm.

Doidge & Bottomley (1931) 42 ; van der Byl (1922 d) 288 ; Nel (1942) 97.
on **Allium Cepa** Linn., Aliwal North, *Pienaar*, 2008.
Beta vulgaris Linn., Stellenbosch, *v. d. Byl 642.*

Macrosporium commune Rabenh.

Hopkins (1930) 524.
? as *Macrosporium* sp., Eyles (1926) 644.
on **Carica Papaya** Linn., Barberton, *Pole Evans*, 1566 ; ? Salisbury, *Eyles.*
Gladiolus sp., Southern Rhodesia, *Hopkins.*
Prunus persica Sieb. & Zucc., Windhoek, *Fickling*, 30829.

Macrosporium Eucalypti P. Henn.

on **Eucalyptus saligna** Sm., Naboomspruit, *Black*, 21575.

Macrosporium Iridis Cooke & Ell.

van der Byl (1922) 288 ; Nel (1942) 97.
on **Iris** sp., Stellenbosch, *v. d. Byl 638.*

Macrosporium lanceolatum Mass.

Massee (1910 a) 5 ; Sacc. Syll. Fung. XXII : 1408.
on **Agave sisalana** Perr., leaves, Moçambique, *Johnson.*

Macrosporium Maydis Cooke & Ellis.

Doidge & Bottomley (1931) 36 ; van der Byl (1922 d) 288.
? as *Macrosporium* sp., Hopkins (1930 a) 527.
on **Zea Mays** Linn., Kingwilliamstown, *Burtt Davy*, 1274 ; Stellenbosch, *v. d. Byl ;* ? Southern Rhodesia, *Hopkins.*

Macrosporium nigricantium Atk.

Eyles (1924 a) 594 ; Cardoso (1945) 158.
on **Gossypium** sp., Rhodesia, *Eyles ;* Massinga, *Gomes e Souza ;* Caniçado, *Barrados.*

Macrosporium nobile Vize.

on **Dianthus caryophyllus** Linn., Pretoria, *Cross*, 2083 ; Louis Trichardt, *Brown*, 23338 ; Pinetown, *Badcock*, 20402.

Macrosporium Oleae Berl. & Vogl.

on **Olea europaea** Linn., Stellenbosch, *Gorter*, 33361.

Macrosporium Phaseoli Fautr.

Doidge & Bottomley (1931) 25.
on **Phaseolus vulgaris** Linn., Cape Province.
Phaseolus coccineus Linn., Cape Province.

Macrosporium Porri Ell.

Eyles (1926) 643 ; Hopkins (1930) 528, (1939 a) 4.
on **Allium Cepa** Linn., Selukwe (Rh. 1531) ; Inyazura (Rh. 2161) ; Headlands, *Eyles.*

Macrosporium punctatum Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 23 ; Sacc. Syll. Fung. IV : 537.
on **Allium schoenoprasum** Linn., Somerset East, *MacOwan R. 21*, Type, Kew.

Macrosporium sarcinula Berk.

Massee (1906 b) 195 ; du Plessis (1933 b) 9 ; Dippenaar (1939) 101 ; Verwoerd (1931 a) 301.
on **Allium Cepa** Linn., Bloemfontein, *Verwoerd ;* Stellenbosch, *du Plessis* (Stell. 527) ; French Hoek, *Dippenaar* (Stell. 885).
Cucumus Melo Linn., Cape, det. *Massee.*
Lactuca sativa Linn., Cape Flats, *Dippenaar.*

Macrosporium tomato Cooke

Cardoso (1937) 155, (1938) 75, (1939) 45, (1945) 157.
on **Lycospersicum esculentum** Mill., Umbeluzi, *Guimarães ;* Catembe, *Viana.*

Macrosporium Vitis Sorok.

Doidge & Bottomley (1931) 28.
on **Vitis vinifera** Linn., Cradock, *Dewar*, 318 ; Kenilworth, *Pole Evans*, 394 ; Rustenburg.

Macrosporium spp. undet.

Eyles (1926) 632 ; Verwoerd (1929 b) 8, 10, 12, (1931 a) 301 ; van der Byl (1922 d) 287.
on **Brachystegia** sp., Salisbury, *Eyles.*
Cyphomandra betacea Sendt., Stellenbosch, *v. d. Byl.*
Eriobotrya japonica Lindl., Stellenbosch, *v. d. Byl.*
Helianthus annuus Linn., Bloemfontein, *Verwoerd.*
Passiflora quadrangularis Linn., Genadendal, *Verwoerd.*
Pennisetum spicatum Koern., Bloemfontein, *Verwoerd.*

Populus sp., Stellenbosch, *v. d. Byl.*
Senecio cruentus DC., Stellenbosch, *Verwoerd.*
Vicia Faba Linn., Bloemfontein, *Verwoerd ;* Stellenbosch and Somerset West, *Verwoerd.*

Mystrosporium Alliorum Berk.

Doidge & Bottomley (1931) 42.
on **Allium Cepa** Linn., Greytown, *Wilson*, 5143.

Mystrosporium aterrimum Berk. & Curt.

Kalchbrenner & Cooke (1880) 23.
on **Gymnosporia buxifolia** Szysz., Somerset East, *MacOwan 1282* (S.A.M.).

Mysterosporium polytrichum Cooke

Kalchbrenner & Cooke (1880) 23 ; Sacc. Syll. Fung. IV : 541.
Mystrosporium velutinum Kalchbrenner & Cooke l.c.
on **Aloe** sp., Klein Vis Rivier nr. Somerset East, *MacOwan 500 ;* Cape, *MacOwan 1224*, Kew.

Sporidesmium polymorphum Corda

Kalchbrenner (1882 b) 27 ; Sacc. Syll. Fung. IV : 501.
on bark, Somerset East, *MacOwan 1432*, 20801.

Stemphylium Eugeniae Verw. & du Pless.

Verwoerd & du Plessis (1933) 232.
on **Eugenia** sp., Rhodesia, *v. d. Byl 2724*, Type (Stell. 649).

Stemphylium phyllogenum (Kalchbr. & Cooke) Sacc.

Sacc. Syll. Fung. IV : 521 ; P. & H. Sydow (1910) 349.
Epochnium phyllogenum Kalchbrenner & Cooke (1882 b) 21 ; Sacc. Syll. Fung. VII: 585.
Uromyces lugubris Kalchbrenner (1882 b) 21 ; Sacc. Syll. Fung. VII : 585.
on undetermined plant, Durban, *Medley Wood 15, 39*, Type, 10424, Kew.

Stemphylium sp.

van der Byl (1920 c) 5.
on sugar, Natal coast, *v. d. Byl.*

Stigmella graminicola Linder

on **Rhynchelytrum repens** (Willd.) Hubb., Amanzimtoti, *Doidge*, 1608.

Tetraploa aristata Berk. & Br.

on **Syzygium cordatum** Hochst., Eshowe, *McClean*, 33103 b.

Scolecosporae

Cercospora Apii Fres.

Chupp & Doidge (1948). 881
as *Cercospora* sp., Hopkins (1930) 416.
on **Apium graveolens** Linn. var. *dulce* D., Cedara, 2099 ; S. Rhodesia, *Hopkins.*

Cercospora arachidicola Hori

Woodroof (1933) 632, 634 ; Hopkins (1938 a) 122, (1939 a) 5 ; Chupp & Doidge (1948). 881

sub *Cercospora personata* (Berk. & Curt.) Ell., Eyles (1926) 644 ; Mason (1928) 36 ; Hopkins (1930 a) 526.

on **Arachis hypogaea** Linn., Gwebi and Salisbury, *Eyles 4987*, *5001* (Rh. 481, 836, 2122) ; Bindura, *Hopkins* (Rh. 1619) ; Marandellas, *Hopkins* (Rh. 1474).

Cercospora Argyrolobii Chupp & Doidge

Chupp & Doidge (1948) 881

on **Argyrolobium Wilmsii** Harms., Nelspruit, *Liebenberg*, 26075.

Cercospora Bauhiniae Syd.

Chupp & Doidge (1948). 882

Cercospora latimaculans Wakefield, Hopkins (1932) 463.

as *Cercospora* sp., Hopkins (1930) 415.

on **Bauhinia Galpinii** N.E. Br., Tzaneen, *Liebenberg*, 32734 ; Nelspruit, *Liebenberg*, 26057 ; Schagen, *Liebenberg*, 32879.

Bauhinia macrantha Oliv., Rhodesia, *Hopkins*.

Cercospora beticola Sacc.

Doidge & Bottomley (1931) 12, 37 ; Verwoerd (1929 b) 8, (1931 a) 301 ; Hopkins (1938 a) 122, (1939 a) 7, (1943) 150; Nel (1942) 96 ; Chupp & Doidge (1948) 882.

on **Beta vulgaris** Linn., Pretoria 661 ; Pyramids, *Bottomley*, 30933 ; Potchefstroom, 23494 ; Schagen, *Liebenberg*, 26180 ; Kentani, *Pegler 2389*, 9429, Kew ; Natal, 1078 ; Cedara, *Staples*, 15430 ; Maritzburg, *Erxleben*, 17006, 17008 ; Thornville Junction, *Slatter* 23180 ; Bloemfontein, *Verwoerd ;* Stellenbosch, *Verwoerd* (Stell. 206, v. d. Byl 115 a) ; Kuilsrivier, Wynberg, Dieprivier, Paarl, Wellington, *Verwoerd ;* Avondale (Rh. 711) ; Salisbury (Rh. 1742) ; Mooi River, *v. d. Byl*, 31976.

Beta vulgaris var. **Cicla** Linn., Pretoria, *Wager*, 23218, *Naude*, 27574 ; Bindura, Bulawayo, Salisbury, Inyanga, *Hopkins ;* Frames Drift, *Barron*, 33883.

Cercospora bolleana (Thuem.) Speg.

Doidge & Bottomley (1931) 23 ; Hopkins (1938 a) 122, (1939 a) 19.

on **Ficus carica** Linn., Potgietersrust, *de Villiers*, 32491 ; ? Pretoria, *Eastwood*, 103.

Ficus sp., Iron Mine Hill (Rh. 296).

Cercospora Byliana Syd.

H. Sydow (1924 c) 433 ; van der Byl (1926 c) 289 ; Chupp & Doidge (1948). 882

on **Allamanda cathartica** Linn., Woodbush, *v. d. Byl 1508*.

Cercospora caffra Syd.

H. & P. Sydow (1914 b) 267 ; Sacc. Syll. Fung. XXV : 868 ; Chupp & Doidge (1948) 882.

on **Sclerocarya caffra** Sond., Nelspruit, Hall, 6618 ; Schagen, *Liebenberg*, 26353.

Cercospora canescens Ell. & Mart.

Pole Evans (1906 a) 1345; Hopkins (1938 a) 122, (1939 a) 18, 32; Chupp & Doidge (1948) 882.

on **Dolichos biflorus** Linn., Salisbury (Rh. 2143).

Dolichos sp., Nelspruit, *Liebenberg*, 26070.

Phaseolus vulgaris Linn., Salisbury, *Eyles 4999* (Rh. 1798, 1987, 3950).

Cercospora Carotae (Pass.) Solh.
on **Daucus Carota** Linn. var. **sativa** DC., Stellenbosch, *Dippenaar* (Stell. 1062); Bulawayo, *Hopkins* (Rh. 5957 a).

Cercospora Caryae Chupp & Doidge
Chupp & Doidge (1948) 882.
on **Carya Pecan** Engl. & Graebn., Plaston, *Wager*, 28264; Alkmaar, 25441, Type.

Cercospora Cassinopsidis Wint.
Winter (1885 b) 34; Sacc. Syll. Fung. IV: 469; Chupp & Doidge (1948) 883.
on **Cassinopsis capensis** Sond., Somerset East, *MacOwan*, Type.

Cercospora Cichorii J. J. Davis
on **Cichorium Intybus** Linn., Alexandria, *Erasmus*, 33203, 32809.

Cercospora circumscissa Sacc.
Verwoerd (1929 b) 10, (1931 a) 301; Doidge & Bottomley (1931) 18.
Chupp & Doidge (1948) 883.
on **Prunus Avium** Linn., Kingwilliamstown, *Dreyer*, 1187; Bloemfontein, *Verwoerd;* Stellenbosch, *Verwoerd.*

Cercospora Clerodendri Miyake
Chupp & Doidge (1948) 883.
on **Clerodendron Myricoides** R. Br. var. **cuneatum** Pears., Nelspruit, *Liebenberg*, 26012.

Cercospora Cluytiae Kalchbr. & Cooke
Kalchbrenner & Cooke (1880) 24; Sacc. Syll. Fung. IV: 473; Chupp & Doidge (1948) 883.
on **Cluytia pulchella** Linn., Somerset East, *MacOwan 1352*, Type *1325 b*, Kew.

Cercospora coffeicola Berk. & Cooke
Hopkins (1938 a) 122, (1939 a) 14; Cardoso (1939) 44, (1945) 159; Chupp & Doidge (1948) 884.
on **Coffea** sp., Nelspruit, *Liebenberg*, 26022; Concession (Rh. 907); Umtali (Rh. 912, 2735, 2946); Mualama, *Guimarães;* Chiperone, *Grilo.*

Cercospora columnaris Ell. & Everh.
Chupp & Doidge (1948) 883.
Isariopsis griseola Sacc., Doidge (1920 c) 119; Doidge & Bottomley (1931) 25; Hopkins (1941) 1, (1943) 188.
on **Phaseolus vulgaris** Linn., Pretoria, *Doidge*, 11387; Barberton, *Watts*, 15; Winkle Spruit, *Doidge*, 2504; Southern Rhodesia, *Hopkins;* Cedara, *Staples*, 15428; Umhlanga Rocks, *Wager;* Salisbury, *Hopkins.*

Cercospora Commelynae Kalchbr. & Cooke
Kalchbrenner & Cooke (1880) 24; Sacc. Syll. Fung. IV: 478; Chupp & Doidge (1948) 883.
on **Commelina benghalensis** Linn., Somerset East, *MacOwan 1346*, Type, Kew as *Septoria Commelynes* Kalchbr. & Cooke.
Commelina sp., Stella Bush, *Mariott*, 32777.

Cercospora Corchori Sawada

Chupp & Doidge (1948) 884.
on **Corchorus tridens** Linn., Nelspruit, *Liebenberg*, 26001, 26309.

Cercospora cruenta Sacc.

Hopkins (1930) 415 ; Doidge & Bottomley (1931) 25 ; Chupp & Doidge (194).
on **Phaseolus vulgaris** Linn., Potchefstroom, 23497 ; Southern Rhodesia, *Hopkins*.
? on **Vigna unguiculata** (L.) Walp., Maritzburg, *Erxleben*, 17009.

Cercospora Curtisiae Chupp & Doidge

Chupp & Doidge (1948) 884.
on **Curtisia faginea** Ait., Knysna, *Reinecke*, 32077, Type.

Cercospora Demetrioniana Wint.

Chupp & Doidge (1948) 884.
on **Crotalaria intermedia** Klotzsch, Nelspruit, *Liebenberg*, 25970.
Crotalaria juncea Linn., Nelspruit, *Liebenberg*, 26676.

Cercospora Dissotidis Chupp & Doidge.

Chupp & Doidge (1948) 884.
on **Dissotis incana** Triana, Tweedie, *Mogg*, 11651, Type.

Cercospora Dovyalidis Chupp & Doidge.

Chupp & Doidge (1948) 885.
on **Dovyalis Zeyheri** Warb., Groenkloof, Pretoria, *Doidge*, 7298, Type.

Cercospora egenula (Syd.) Chupp & Doidge

Chupp & Doidge (1948) 885.
Cercoseptoria egenula Syd., H. Sydow (1935) 235.
on **Solanum panduraeforme** E. Mey., Nelspruit, *Liebenberg*, 25999, Type.

Cercospora Faureae Chupp & Doidge

Chupp & Doidge (1948) 885.
on **Faurea speciosa** Welw., Concession, *Hopkins* (Rh. 1620) Type.

Cercospora Fici Heald & Wolf

Chupp & Doidge (1948) 885.
on **Ficus Sycomorus** Linn., Nelspruit, *Liebenberg*, 26345.

Cercospora fukushiana (Mats.) Yam.

Chupp & Doidge (1948) 885 ; Hopkins (1943) 185.
on **Impatiens balsamina** Linn., on leaves, Salisbury, *Hopkins* (Rh. 4472).

Cercospora fusca Rand.

Cardoso (1945) 160.
on **Carya pecan** Engl. & Graebn., Umbeluzi, *Oliveira*.

Cercospora fusimaculans Atk.

Chupp & Doidge (1948) 886.
on **Brachiaria serrata** Stapf, Kaalfontein, *Pole Evans*, 10081.

Cercospora gossypina Cooke

Hopkins (1939 a) 22.
on **Gossypium** sp., Darwendale, Salisbury, Hopkins.

Cercospora grandissima Rang.

Hopkins (1938 a) 122, (1939 a) 16 ; Chupp & Doidge (1948) 886.
as *Cercospora* sp., Hopkins (1930) 524.
on **Dahlia pinnata** Cav., Salisbury (Rh. 507), 24359.

Cercospora guliana Sacc.

Chupp & Doidge (1948) 886.
as *Cercospora circumscissa* Sacc., Verwoerd (1929 b) 5 ; Doidge & Bottomley (1931) 5 ; Dippenaar (1931 b) 267 ; Nel (1942) 96.
on **Prunus communis** Fritsch, Klerksdorp, 779 ; without locality, *Thomsen*, 1177 ; Louwscreek, Bradbury, 24891 ; Kirkwood, *Knights-Rayson*, 26634 ; Klein Brak, Knysna, George, *Dippenaar ;* Stellenbosch, *Verwoerd* (Stell. 366) ; Paarl, *Verwoerd ;* Knysna, *Reinecke* (Stell. 907 ; v. d. Byl 1676) ; Stellenbosch, *Roos* (v. d. Byl 1342) ; Stellenbosch, *Dippenaar* (Stell. 889 ; v. d. Byl 2580).

Cercospora Haemanthi Kalchbr.

Kalchbrenner & Cooke (1880) 24 ; Medley Wood (1898) 11 ; Sacc. Syll. Fung. IV : 477 ; Chupp & Doidge (1948) 886.
on **Haemanthus magnificus** Herb., Pretoria, *Pole Evans*, 1203 ; Garstfontein, *Doidge*, 1378 ; Buffelspoort, *Doidge*, 28615 ; Derdepoort, *Doidge & Bottomley*, 33933.
Haemanthus natalensis Pappe, Maritzburg, *Doidge*, 867.
Haemanthus puniceus Linn., Boschberg, *MacOwan 1020*, Type (S.A.M. 35105) ; Natal, *Medley Wood ;* Kentani, *Pegler 2406*, *2398*, 9772, 9738.

Cercospora Halleriae Chupp & Doidge

Chupp & Doidge (1948) 886.
on **Halleria lucida** Linn., Barberton, *v. d. Byl*, 7377, Type.

Cercospora Henningsii Allesch.

Hopkins (1943) 186.
on **Manihot utilissima** Pohl., Mazoe, *Bates*.

Cercospora heteromalla Syd.

H. Sydow (1924 c) 433 ; van der Byl (1926 c) 289 ; Nel (1942) 96 ; Chupp & Doidge (1948) 886.
on **Rubus rosaefolius** Sm., Woodbush, *v. d. Byl 1533*, Type, 34280.

Cercospora insulana (Sacc.) Chupp

Chupp & Doidge (1948) 886.
on **Limonium sinuatum** Mill., Pretoria, *Wager*, 21247.

Cercospora Jussieuae Atk.

Chupp & Doidge (1948) 887.
on **Jussieua suffruticosa** Linn. var. **angustifolia** Lam., Nelspruit, *Liebenberg*, 26066.

Cercospora Kiggelariae Syd.

H. Sydow (1924 c) 434 ; Nel (1942) 96 ; Chupp & Doidge (1948) 887.
on **Kiggelaria africana** Linn., Stellenbosch, *Brain* (v. d. Byl 1449), Type, *Verwoerd* (Stell. 308 ; v. d. Byl 2677) ; Schagen, *Liebenberg*, 26315.

Cercospora Kopkei Krug.

on **Saccharum officinarum** Linn., Mt. Edgecombe, *McMartin*.

Cercospora leoni Savul & Rayss.

Chupp & Doidge (1948). 887
Septosporium heterosporum Ell. & Gall., Chupp & Doidge, l.c.
on **Vitis vinifera** Linn., leaves, Maracuene, *Howard*, 975 ; Upington, *Hugo*, 33155, *du Plessis* (Stell. 1045, 1046) ; Marchand, Kakamas, *Valentin*, 33898.

Cercospora Leonotidis Cooke

Cooke (1879 b) 72 ; Kalchbrenner & Cooke (1880) 24 ; Sacc. Syll. Fung. IV : 470 ; Chupp & Doidge (1948) 887.
on **Leonotis leonitis** R. Br., Inanda, *Medley Wood 5*, Type, 10175.

Cercospora Liebenbergii Syd.

H. Sydow (1935) 235 ; Chupp & Doidge (1948) 887.
on **Rauwolfia caffra** Sond., Schagen, *Liebenberg*, 26177, Type, 30964.

Cercospora longipes Butl.

on **Saccharum officinarum** Linn., common on Natal coast on the variety Co. 281, *McMartin* ; Mt. Edgecombe, *McMartin*.

Cercospora malayensis Stev. & Solh.

Hopkins (1939 a) 22 ; Chupp & Doidge (1948) 888.
as *Cercospora gossypina* Cooke, Hopkins (1938 a) 122.
as *Cercospora* sp., Eyles (1926) 641.
on **Hibiscus cannabinus** Linn., Schagen, *Liebenberg*, 26312 ; Nelspruit, *Liebenberg*, 26674 ; Salisbury (Rh. 773, 1233) 34262, Kew ; Concession (Rh. 808) ; Shamwa (Rh. 1252) ; Sinoia, *Hopkins* (Rh. 548) 34274.

Cercospora melaena Syd.

H. Sydow (1924 c) 434 ; Nel (1942) 96 ; Chupp & Doidge (1948) 888.
on **Flemingia Grahamiana** W. & A., Woodbush, *v. d. Byl 1522*, Type, and *Doidge*, 32911.

Cercospora melanochaeta Ell. & Everh.

Chupp & Doidge (1948) 888.
on **Gymnosporia buxifolia** Szysz., Verulam, *v. d. Byl*, 6946 ; Kentani, *Pegler 2405*, 9771 ; Schagen, *Liebenberg*, 26350 ; Escombe, *Hean*, 33214.

Cercospora Momordicae McRae

Chupp & Doidge (1948) 888.
on **Momordica foetida** Schum. & Thom., Kentani, *Pegler 2453*, 11679.

Cercospora Musae Zimm.

Chupp & Doidge (1948) 888.
Cercospora Musae Massee, Massee & Wakefield (1914) 159.
on **Musa** sp., Gondola, Moçambique (Rh. 5766).

Cercospora myrticola Speg.

Chupp & Doidge (1948) 888.
Cercospora Myrti Eriks., H. Sydow (1924 c) 435 ; Nel (1942) 96.
? as *Cercospora purpurea-cincta* in Nel (1942) 96.
on **Myrtus communis** Linn., Blauwvlei, Wellington, *Doidge*, 2066 ; Hopefield, *v. d. Byl 1327* and ? *v. d. Byl 908, 2025*.

Cercospora Nicotianae Ell. & Ev.

Eyles (1924) 747, (1926) 649 ; Mason (1928) 36 ; Hopkins (1931) 51 ; Doidge & Bottomley (1931) 62 ; Chupp & Doidge (1948) 888.
on **Nicotiana Tabacum** Linn., Swaziland, *Gray*, 894 ; Zomba, Nyasaland ; Salisbury, *Hopkins* (Rh. 532, 1801, 1803, 3786), 34260, 34267, 34268, 34276 ; Trelawney, *Hopkins* (Rh. 3304) ; Eldorado, *Hopkins* (Rh. 1767).

Cercospora obtecta Syd.

H. Sydow (1935) 235 ; Chupp & Doidge (1948) 888.
on **Annona semegalensis** Pers., Nelspruit, *Liebenberg*, 26043, Type.

Cercospora occidentalis Cooke

Chupp & Doidge (1948) 889.
on **Cassia delagoensis** Harv., Nelspruit, *Liebenberg*, 26033 ; Schagen, *Liebenberg*, 26352.

Cercospora Oliniae Verw. & Dipp.

Verwoerd & Dippenaar (1930 a) 326 ; Chupp & Doidge (1948) 889.
on **Olinia cymosa** Thunb., Stellenbosch, *Dippenaar*, Type (Stell. 391, 887, 888 ; v. d. Byl 2583) 34282.

Cercospora omphacodes Ell. & Holw.

Doidge & Bottomley (1931) 50 ; Chupp & Doidge (1948) 889.
on **Phlox Drummondi** Hk., Cramond, *Hill*, 6836.

Cercospora Pachycarpi Chupp & Doidge

Chupp & Doidge (1948) 889.
on **Pachycarpus Schinzianus** N. E. Br., Wonderboom, *v. d. Byl*, 2208.

Cercospora Pareirae Speg.

Chupp & Doidge (1948) 889.
on **Cissampelos mucronata** A. Rich., Schagen, *Liebenberg*, 26314.

Cercospora Pastinacae (Sacc.) Peck

Cercospora Apii Fres. var. *Pastinacae* Sacc., Doidge & Bottomley (1931) 46.
on **Pastinaca sativa** Linn., Cedara.

Cercospora Persicariae Yam.

Chup & Doidge (1948) 889.
? on **Polygonum tomentosum** Willd., Nels River nr. Nelspruit, *Liebenberg*, 26011.

Cercospora personata (Berk. & Curt.) Ell.

Mason (1928) 36 ; Doidge & Bottomley (1931) 48 ; Cardoso (1945) 151 ; Chupp & Doidge (1948) 890.
Septogloeum Arachidis Rac., v. d. Byl (1920 d) 528, (1922 d) 287 ; Verwoerd (1929 b) 48.
on **Arachis hypogaea** Linn., Skinner's Court, 993, 1287 ; Hartebeestpoort Exp. Sta., *Sellschop*, 32136, 32137 ; Crecy, *Sellschop*, 30649 ; Nelspruit, *Liebenberg*, 26675 ; Immerpan, *Steen*, 25364 ; Barberton, *Parsons*, 25363 ; Northern Flats, *Dros*, 25924 ; Cedara, *Staples*, 17060 ; Maritzburg, *Erxleben*, 15447 ; Stellenbosch, *Verwoerd* (Stell. 20) ; Settlers, *Haywood*, 30654 ; Sao Paulo, de Messano, *Howard*, 978 ; Umbeluzi, *Guimarães*.

Cercospora phaeocarpa Mitter

Chupp & Doidge (1948) 890.
on **Baukinia Thonningii** Schum., Concession, *Hopkins* (Rh. 1621) 34265

Cercospora Pouzolziae Syd.

H. Sydow (1935) 236 ; Chupp & Doidge (1948) 890.
on **Pouzolzia hypoleuca** Wedd., Nelspruit, *Liebenberg*, 26013, Type.

Cercospora pretoriensis Chupp & Doidge

Chupp & Doidge (1948) 890.
on **Gomphrena decumbens** Jacq. var. **genuina** Stüchlik, Skinner's Court, 1937 ; Pretoria, *Doidge*, 775, 6593, Type ; Donkerpoort, *Doidge & Bottomley*, 32767 ; Wonderboom, *Doidge & Bottomley*, 32789 ; Schagen, *Liebenberg*, 26316.

Cercospora Protearum Cooke

Cooke (1883 b) 39 ; Sacc. Syll. Fung. IV : 473 ; van der Byl (1922 d) 288 ; Solheim (1929) 31 ; Nel (1942) 96 ; Chupp & Doidge (1948) 890.
Cercospora Protearum var. *Leucospermi* Cooke l.c.
Cercospora Protearum var. *Leucadendri* Cooke l.c.
on **Leucospermum conocarpum** R.Br., Hottentot's Holland, *MacOwan 1456*, Type (Rabenh. Wint. Fung. Eur. 3589) 3929, Kew ; St. James, *Pole Evans*, 5570 ; Stellenbosch, *Duthie* (v. d. Byl 62).
Leucadendron argenteum R.Br., Table Mt., *MacOwan 1457*, Kew ; Kirstenbosch, *Pearson*, 8354.

Cercospora psychotriaecola Chupp & Doidge

Chupp & Doidge (1948) 891
on **Psychotria capensis** Vatke, Mambatini, nr., Nelspruit, *Mogg*, 32773.

Cercospora punctiformis Sacc. & Roum.

Chupp & Doidge (1948) 891

on **Cynanchum natalitium** Schlecht., Isipingo, *Doidge*, 6642

Cercospora Resedae Fuck.

Nel (1942) 96 ; Chupp & Doidge (1948) 891.

on **Reseda odorata** Linn., Hopefield, *v. d. Byl 1272* ; Kentani, *Pegler 2390*, 9428, Kew Barberton, 439.

Cercospora Rhoicissi Syd.

H. & P. Sydow (1912 c) 444 ; Sacc. Syll. Fung. XXV : 894 ; Chupp & Doidge (1948) 891.

on **Rhoicissus erythrodes** (Fres.) Planch., Barberton, *Lounsbury*, 1275, Type.

Cercospora riachueli Speg.

Chupp & Doidge (1948) 891.

on **Cissus** sp., Schagen, *Liebenberg*, 26178.

Cercospora richardiaecola Atk.

Hopkins (1938 a) 122, (1939 a) 40 ; Chupp & Doidge (1948) 891.

on **Zantedeschia aethiopica** (L.) Spreng., Pretoria, *Bottomley*, 14269 ; Salisbury (Rh. 1214).
Zantedeschia angustiloba (Schott.) Engl., Pretoria, *Bottomley*, 14271.
Zantedeschia Elliotiana (Knight) Engl., Salisbury ; Rusapi, *Hopkins* (Rh. 4688).
Zantedeschia melanoleuca (Hk. f.) Engl., Avondale, Salisbury, *Townsend* (Rh. 1214) 34261.
Zantedeschia Rehmanni Engl., Pretoria, *Bottomley*, 14270.
Zantedeschia sp., Maritzburg, *Schmutz*, 30098.

Cercospora ricinella Sacc. & Berl.

Chupp & Doidge (1948) 892.

Cercosporina ricinella (Sacc. & Berl.) Speg., Cardoso (1939) 44.

on **Ricinus communis** Linn., Nelspruit, *Liebenberg*, 26010 ; Moçambique, *Cardoso*.

Cercospora rubro-tincta Ell. & Everh.

Chupp & Doidge (1948) 892.

on **Prunus persica** Sieb. & Zucc., Potchefstroom, 23496.

Cercospora scitula Syd.

H. Sydow (1935) 236 ; Chupp & Doidge (1948) 892.

on **Annona senegalensis** Pers., Nelspruit, *Liebenberg*, 26027, Type.

Cercospora Sesami Zimm.

Chupp & Doidge (1948) 892.

on **Ceratotheca triloba** E. Mey., Schagen, *Liebenberg*, 26179.
Pretrea zanguebarica J. Gay, Nelspruit, *Liebenberg*, 26048.

Cercospora Solani-melongenae Chupp

Chupp & Doidge (1948) 892.

Cercospora Solani-melongenae Hori, nom. nud.

on **Solanum Melongena** Linn., var. **esculentum** Nees, Cavendish, *Wager*.

Cercospora Sorghi Ell. & Everh.

Chupp & Doidge (1948) 892.

on **Cymbopogon afronardus** Stapf, Nelspruit, *Liebenberg*, 26061.
Cymbopogon excavatus Stapf, Wolwekloof, *Bottomley*, 29953 ; Schagen, *Liebenberg*, 32910.

Cercospora sphaeroidea Speg.

H. & P. Sydow (1909) 547 ; Chupp & Doidge (1948) 893.

on **Cassia delagoensis** Harv., Umbelusi, *Howard*, 522.

Cercospora Stizolobii Syd.

Chupp & Doidge (1948) 893.

on **Stizolobium Deeringianum** Bort., Salisbury, *Hopkins* (Rh. 5302) 33969.

Cercospora transvaalensis Syd.

H. Sydow (1935) 237 ; Chupp & Doidge (1948) 893.

on **Acalypha petiolaris** Hochst., Nelspruit, *Liebenberg*, 26002, Type.

Cercospora Tremae (Stev. & Solh.) Chupp.

Chupp & Doidge (1948) 893.

on **Trema guineensis** (Schum.) Ficalho, Durban, *Doidge*, 1671.

Cercospora vaginae Krueg.

Stevenson & Rands (1938) 260.

on **Saccharum officinarum** Linn., South Africa, without locality ; occurs commonly throughout coastal belt of Natal, *McMartin*.

Cercospora Violae Sacc.

Burtt-Davy (1904) 296 ; Eyles (1926) 651 ; Verwoerd (1929 b) 27 ; Doidge & Bottomley (1931) 65 ; Hopkins (1938 a) 122, (1939 a) 48 ; Chupp & Doidge (1948) 893.

on **Viola odorata** Linn., Pretoria, *Faure*, 884, *Pole Evans*, 6678, *Wager*, 21580 ; Potchefstroom, 23495 ; Barberton, 440 ; Fort Hare, *Lyle*, 25422 ; Idutywa, *Imray*, 22343 ; Knysna, *Laughton*, 34216 ; Cramond, *Pole Evans*, 1497 ; Donnybrook, *Morgan*, 28610 ; Pyramids, *Bottomley*, 33444, *Hean*, 33490 ; Stellenbosch, *Verwoerd* (Stell. 308) ; Salisbury, *Eyles 2098*, 14015, *Mitchell* (Rh. 1314, 1602) Kew ; Lourenço Marques, *Howard*, 651.
Viola tricolor Linn., Claremont, Cape, 741.

Cercospora Vitis (Lév.) Sacc.

Chupp & Doidge (1948) 893.

Cercospora viticola (Ces.) Sacc., Doidge & Bottomley (1931) 28 ; Hopkins (1938 a) 122, (1939 a) 48.

on **Vitis vinifera** Linn., Pretoria, *Bottomley*, 32636, 33489 ; Vaalwater, Waterberg, *Farrant*, 30765 ; Buffelspoort, *Bottomley*, 32701 ; Middelburg, Transvaal, 612 ; Vaalwater, *Farrant*, 30765 ; Kingwilliamstown, *Mally*, 462, 1182, 1173 ; Verulam, *James*, 33299 ; Eshowe, *Pole Evans*, 2025 ; Ezulweni, Swaziland, *Douglas*, 26378 ; Modder River, *Dreyer*, 283 ; Kentani, *Pegler*, 9740 ; Gwelo (Rh. 2048) ; Salisbury (Rh. 1535, 1988, 1820).

? on **Cissus Rhodesiae** Gilg. & Brandt., Salisbury, *Hopkins* (Rh. 1210).

Cercospora Withaniae Syd.

H. & P. Sydow (1912 c) 444 ; Sacc. Syll. Fung. XXV : 891 ; Chupp & Doidge (1948) 893.

on **Withania somnifera** Dun., Bluff, Durban, *Doidge*, 1672.

Cercospora Zizyphi Petch

Chupp & Doidge (1948) 893.

on **Zizyphus mucronata** Willd., Barclayvale, *Liebenberg*, 32880 ; Schagen, *Liebenberg*, 26347 32876 ; Tzaneen, *Liebenberg*, 32726.

Cercospora sp.

Hopkins (1930 a) 415.

on **Cucumis sativus** Linn., Southern Rhodesia, *Hopkins*.

Cercospora sp.

Hopkins (1930 a) 414.

on **Helianthus tuberosus** Linn., Southern Rhodesia, *Hopkins*.

STAUROSPORAE.

Triposporium Stapeliae du Plessis

du Plessis (1933 c) 9, 12 ; Nel (1942) 98.

on **Caralluma** sp., Bot. Gard., Stellenbosch, *Herre*.

Duvalia corderoyi N.E.Br., Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Duvalia parviflora N.E.Br., Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Duvalia sp., Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Hoodia Bainii Dyer, Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Hoodia Gordoni Sweet, Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Huernia longituba N.E.Br., Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Huernia oculata Hook. f., Bot. Gard., Stellenbosch, *du Plessis* (Stell. 788 ; v. d. Byl 2711).

Sarcophagophilus Winklerianus Dinter, Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Stapelia desmetiana N.E.Br., Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Stapelia Leendertziae N.E.Br., Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Stapelia Schinzii Berg. & Schlecht., Bot. Gard., Stellenbosch, *Herre & du Plessis* (Stell. 787).

Stapelia spp., Bot. Gard., Stellenbosch, *Herre & du Plessis* (Stell. 791, 793, 794).

Tavaresia grandiflora Berg., Bot. Gard., Stellenbosch, *Herre & du Plessis* (Stell. 790).

Trichocaulon annulatum N.E.Br., Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Trichocaulon cactiforme N.E.Br., Bot. Gard., Stellenbosch, *du Plessis* (Stell. 789 ; v. d. Byl 2712).

Trichocaulon sinus-Luderitzii Dinter, Bot. Gard., Stellenbosch, *Herre & du Plessis*.

Trichocaulon spp., Bot. Gard., Stellenbosch, *Herre & du Plessis*.

According to du Plessis, l.c., this fungus also occurs on Tricaulon spp., Stapelia spp. and other succulent Asclepiadaceae in the Barkly East, Kuruman, Omaruru, Prieska, Tumeb and Windhoek districts.

TUBERCULARIACEAE.

MUCEDINAE

Amerosporae.

Beniowskia sphaeroidea (Kalchbr. & Cooke) Mason

Mason (1928) 26 ; Doidge & Bottomley (1931) 26, 40 ; Hopkins (1938 a) 123, (1939 a) 31, 42.

Ceratium sphaeroideum Kalchbrenner & Cooke (1880) 22 ; Sacc. Syll. Fung. IV : 597.
Beniowskia Penniseti Wakefield (1916) 75.
Aegerita Penniseti P. Henn., Doidge & Bottomley l.c. ; Eyles (1926) 640 ; Nel (1942) 106.
Albugo sp., Eyles (1926) 629.

on **Cymbopogon marginatus** (Steud.) Stapf, Somerset East, *MacOwan 1284*, Kew.
Cenchrus ciliaris Linn., George, *Moore*, 20300.
Pennisetum purpureum Schum., Westfalia Estates, *F. du Toit*, 25930 ; Hartley, *Eyles 3325*, 15520.
Pennisetum sp., Salisbury, *Eyles* (v. d. Byl 1804).
Setaria nigrirostris Dur. & Schinz, Belfast, *Doidge*, 560 ; Sandymount, *Wallace*, 10019.
Setaria sphacelata Stapf & Hubb., Pretoria, *Hean*, 30700.
Setaria verticillata Beauv., Salisbury, *Eyles 2065*, 14002 ; Mazoe (Rh. 2300).

Tubercularia Fici Edgert.

Eyles (1926) 639 ; Hopkins (1930) 524.

on **Ficus** sp., Salisbury, *Eyles*.

Tubercularia minor Link

Verwoerd & du Plessis (1933) 233.

on **Acacia saligna** Wendl., Mossel Bay, *Vorster* (Stell. 818).

Tubercularia vulgaris Tode

Medley Wood (1898) 19.

Sphaeria tremelloides Linn., Thunberg (1800) 183, (1823) 756.

on **Rhus** sp., on bark, Boschberg, *MacOwan 1096* (S.A.M. 35210) 20826 ; Natal. *Medley Wood 462*, 10024, 10615.
on host unknown, Cape, *Thunberg*.

Tuberculina malvacearum Speg.

H. & P. Sydow (1909) 547.

on **Puccinia heterospora** Berk. & Curt., on *Sida cordifolia*, Moçambique, *Howard*, 676.

Tuberculina persicina (Ditm.) Sacc.

Tubercularia persicina Ditm., von Thuemen (1877) 413.

on **Aecidium dubiosum** Syd., on *Senecio mikanioides*, Boschberg, *MacOwan*.

Volutella Dianthi (Halst.) Atk.

Doidge & Bottomley (1931) 16.

on **Dianthus caryophyllus** Linn., Duivelskloof, *v. d. Merwe*, 25450, *Olivier*, 28723, *Graham*, 25353.

Volutella sp.

on **Citrus sinensis** Osbeck, isolated from surface washings from fruit, Mazoe, *Bates 255*, 34024.

Didymosporae.

Patouillardellâ Rumicis Verw. & du Pless.

Verwoerd & du Plessis (1933) 227 ; Nel (1942) 107.

on **Rumex** sp., Ceres, *Dippenaar*, Type (Stell. 659 ; v. d. Byl 2690).

Phragmosporae.

Bactridium flavum Kunze & Schum.

van der Byl (1925 b) 196 ; Nel (1942) 106.

on old wood, Knysna, *Duthie 53* (v. d. Byl 1098).

Cylindrocarpon album (Sacc.) Wollenw. var. **crassum** Wollenw.

isolated from **Persea americana** Mill., Maritzburg, *Schultze*, 28410.

Fusarium angustum Sherb.

du Plessis (1933 b) 9 ; Doidge (1938) 407 ; Doidge & van der Plank (1936) 18.

isolated from

Allium Cepa Linn., south-western Cape, *du Plessis*.

Arachis hypogaea Linn., pods, Pretoria, *F. du Toit*.

Citrus Limonia Osbeck, fruit, Sundays River, Doidge ; roots, Zebediela, *Doidge*, 28434, 28445 ; Steenbokfontein, *Turner*, 28427 ; Marikana, *Doidge*, 28426 ; Acornhoek, *Doidge* ; Bonnievale, *Doidge*.

Citrus sinensis Osbeck, fruit from White River, Zebediela, Rustenburg, Letaba, Groot Drakenstein, Muden, *Doidge* ; roots, Villiersdorp, *Doidge*.

Gossypium sp., stem, Rustenburg, *Wager*.

Lycopersicum esculentum Mill., stems and petioles, Gqaga, *Wager* ; Tonetti, *Wager*.

Pinus sp., discoloured wood, Hogsback, *Lurie*.

Polygala speciosa Gem., stem, Durban, *McClean*.

from soil in Citrus orchards, Kosterfontein, *Esselen*, 28419 ; Boskoppies, *Doidge*, 28441.

Fusarium argillaceum (Fr.) Sacc.

du Plessis (1933 b) 12.

isolated from

Solanum tuberosum Linn., tubers, Ceres, *du Plessis*.

Fusarium avenaceum (Fr.) Sacc.

Doidge (1938) 348.

on **Puccinia ranulipes** Doidge on *Asparagus laricinus* (teleuto-sori), Wonderboom, *Doidge & Bottomley*, 28735.

isolated from

Avena sativa Linn., roots, Stellenbosch, *Gorter*, 33355.

Cucumis Melo Linn., fruit, Cape Town, *Rattray*.

Eleusine indica (L.) Gaertn., stems, Acton Homes, *L. A. Doidge*.

Triticum aestivum Linn., Clarens, *K. M. Putterill* ; South-western Cape, *Dippenaar*.

Form *1*. Wollenw. & Reinking.

Doidge (1938) 349 ; Wollenweber (1935) no. 1134.

isolated from

Citrus sp., bark, Godwan River, *Marloth*.

Euphorbia crassipes Marloth, stems, Willeston, *Herne*, 25950, 28379.

on**Paspalum dilatatum** Poir, ovaries infected with *Claviceps Paspali*, Cedara, *Gill*, 25473, 28436 ; Eshowe, *v. d. Plank*, 25864 ; Hlatikulu, *Thomas*, 31085 ; Pyramids, *Mogg*, 32439 ; Derdepoort, *Doidge & Bottomley*, 33936.

Paspalum distichum Linn., ovaries infected with *Claviceps Paspali*, Durban, *Kent*, 21105 ; Umbilo, *Kent*, 23699 ; Pyramids, *Mogg*, 32442.

Fusarium bulbigenum Cooke & Mass.

Doidge (1938) 412.

isolated from

Allium sativum Linn., bulb of wilting plant, Eikenhof, *Doidge*, 28362.

Freesia sp., discoloured corms, Pretoria, *Hofs*.

Gladiolus sp., discoloured corms, Louis Trichardt, *Koker*.

Nicotiana Tabacum Linn., discoloured stems of wilting plants, Rustenburg, *Moore*.

from soil, Pretoria, *Kammerman*.

Var. **blasticola** (Rostr.) Wollenw.

du Plessis (1933 d) 6.

isolated from

Solanum tuberosum Linn., rotting tubers, Ceres, Paarl, Stellenbosch, *du Plessis*.

Var. **Lycopersici** (Brushi) Wollenw. & Reinking

Wager (1933 a) 240 ; Doidge (1938) 416 ; Doidge & van der Plank (1936) 18.

Fusarium Lycopersici Brushi, Eyles (1926) 650 ; Hopkins (1930) 651 ; Doidge & Bottomley (1931) 63.

isolated from

Carica Papaya Linn., stem, Buffelspoort, *Doidge*.

Citrus sinensis Osbeck, fruit, Letaba, *Doidge*.

Dianthus caryophyllus Linn., stem, Pretoria, *Doidge*, 28390 ; Salisbury, *Hopkins*.

Lycopersicum esculentum Mill., Nelspruit, Karino, Boulders, *Wager*, 28428 ; Gqaga, *Wager ;* Duivelskloof, *Doidge ;* Karino, *Pursglove ;* Clanwilliam, *Dippenaar ;* Shamva, *Eyles ;* Southern Rhodesia, *Hopkins*.

Var. **niveum** (E.F.Sm.) Wollenw.

Doidge (1938) 419, 456.

isolated from

Citrullus vulgaris Schrad., stems, Witpoort, *Doidge ;* Biesjesvlei, Lichtenburg, Uitenhage, *Haines*.

Var. **tracheiphilum** (E.F.Sm.) Wollenw.

Hopkins (1938 a) 125, (1939 a) 24.

on **Lupinus** sp., roots, Salisbury (Rh. 330, 361).

Fusarium chlamydosporum Wollenw. & Reinking

Doidge (1938) 346 ; Wollenweber & Reinking (1935) 47, 48.

isolated from

Brachiaria pubifolia Stapf, ovaries, Nelspruit, *Liebenberg*, 26670.

Nomadacris septemfasciata Serv., South-west Africa, *Wollenweber*.

from underground mine timber, Durban Roodepoort Deep (T.R.L. 429, det. Baarn).

Fusarium ciliatum Link

Doidge (1938) 343.

on **Ephichloe cinerea** Berk. & Br., on *Sporobolus capensis* and *Eragrostis plana*, Thorneville Junction, *Doidge*, 865 ; Mooi River, *Mogg*, 10063 ; Cramond, *Pole Evans*, 1369 ; Fairy Glen, *Lounsbury*, 17651 ; Acton Homes, *L. A. Doidge*, 25897 ; Hopevale, *Morgan*, 27749.

Fusarium coccophilum (Desm.) Wollenw. & Reinking

Wollenweber & Reinking (1935) 34 ; Wollenweber (1935) no. 1126 ; Doidge (1938) 335.

Fusarium coccinellum Kalchbrenner, von Thuemen (1876 b) 426 ; Sacc. Syll. Fung. IV : 696 ; Wollenweber (1930) nos. 782, 861.

Sphaerostilbe flammea Tul., conidiophoro, Kalchbrenner (1882 a) 146 ; Medley Wood (1898) 19.

Nectria sp.. Kalchbrenner (1882 a) 146.

Fusarium baccharidicola P. Henn., Wollenweber (1930) no. 865.

as *Sphaerostilbe coccophila* Tul., van der Byl (1926 c) 286 ; Verwoerd, (1931 a) 299.

as *Microcera coccophila* Desm., Pole Evans (1908 e) 126.

on **Aonidiella aurantii** Mask., on leaves and twigs of *Citrus* spp., Maritzburg, *Kelly*, 12174, *v. d. Vyver*, 26322 ; without locality, 25438 ; Hilton Road, *Cogan*, 10121 ; Moçambique, *Howard*, 650 ; Duivelskloof, *Doidge*, 1845, 28877 ; Elim, *Doidge*, 20344, *Nyenhuis*, 27561, *Turner*, 20587 ; Bredasdorp, *Turner*, 20602 ; Alkmaar, *Turner*, 18191 ; Richmond, *Tedder*, 15479 ; Mt. Silinda, *Lounsbury*, 25973 ; New Agatha, *Wager*, 27689 ; Tzaneen, *Turner*, 26568 ; White River, *Kritzinger*, 12815 ; Inzana, *Walton*, 30757 ; on twigs of *Rosa* spp., Ravenshill, *Eland*, 25932 ; Maritzburg, *Fouché*, 27282, *v. d. Vyver*, 26406 ; Salisbury, *Bates* (Rh. 6782) 35293.

Aspidiotus furcillae Brain, on bark of *Acacia Karroo*, Somerset East, *MacOwan* (Thuem. Myc. Univ. 782) 21956, Kew ; Boschberg, *MacOwan 1059*, (S.A.M. 35213) 20913, Kew.

Aspidiotus perniciosus Comst., on twigs of *Pyrus communis*, Chasedene, Maritzburg, *v. d. Vyver*, 21932.

Aspidiotus rapax Comst., on twigs of *Ribes* sp., Haenertsburg, *Doidge*, 1684 ; on *Aleurites Fordii*, Umhlali, *Gill*, 28656.

Chionaspis sp., Victoria Falls, *Lounsbury*, 25974.

Lepidosaphes Gloveri Pack., on twigs of *Citrus* sp., Chase Valley, *v. d. Plank* ; Port St. Johns, *Fraser*, 26323

Parlatoria zizyphi Lucas, on *Citrus sinensis* Verulam, *James*, 35553.

Coccidae undet., Natal, *Medley Wood 106, 157* ; on *Canthium* sp., Cape, *Lounsbury*, 193. 205.

Fusarium coeruleum (Lib.) Sacc.

du Plessis (1933 d) 10 ; Doidge (1938) 453 ; Hopkins (1938 a) 124, (1939 a) 43.

isolated from

Solanum tuberosum Linn., tubers, George, Paarl, Stellenbosch, Ceres, *du Plessis* ; Borrowdale (Rh. 2935) ; Salisbury, *Hopkins*.

Lycopersicum esculentum Mill., fruit, Mazoe, *Bates*, 33366.

Fusarium conglutinans Wollenw.

Hopkins & Pardy (1944) 63.

isolated from

Brassica oleracea Linn., stems of seedlings, Umtali, *Hopkins & Pardy*.

Var. **Callistephi** Beach

Doidge (1938) 410 ; Doidge & Bottomley (1931) 10.

Fusarium conglutinans var. *majus* Wollenw., Wager (1932 a) 301.

isolated from

Callistephus chinensis Nees, stems of wilting plants, Pretoria, *Cross*, 18187, *Mathews*, 23167, *Doidge*, 25912, *Greenstein*, 32721, *v. d. Merwe*, 28437, *Wager*, 25913 ; Heidelberg, *Theunissen*, 30468 ; Durban, *McClean ;* Cavendish, *Wager.*

Fusarium culmorum (W.G.Sm.) Sacc.

Wollenweber (1931) 360 ; Doidge & Bottomley (1931) 67 ; Doidge (1938) 380 ; Hopkins (1932) 467, (1938 e) 622, (1939 a) 44, 46.

isolated from

Dianthus caryophyllus Linn., stems, Rumbavi (Rh. 70) ; Salisbury, *Hopkins.*
Lolium temulentum Linn., stems of dying plants, Waaikraal, *Wager.*
Solanum tuberosum Linn., Borrowdale (Rh. 1373) ; Salisbury (Rh. 1439, 1891).
Triticum aestivum Linn., stems and roots, Waaikraal, *Wager :* Stellenbosch, *Gorter*, 33356 ; Chakari (Rh. 1326).

on **Sphacelotheca Sorghi** (Link) Clint. on *Sorhgum caffrorum* Beauv., Ixopo, *Storey*, 17272.

Fusarium decemcellulare Brick

Doidge (1938) 339 ; Doidge & van der Plank (1936) 18.

isolated from

Epichloe cinerea Berk. & Br. on *Sporobolus capensis*, Acton Homes, *L. A. Doidge.*
Citrus sinensis Osbeck, fruit, Zebediela, *Doidge.*

Fusarium Dianthi Prill. & Del.

Doidge (1938) 431.

isolated from

Dianthus caryophyllus Linn., stems of wilting plants, Bethlehem, Elim, Politsi, Durban Golden Valley nr. Cookhouse, *Doidge.*

Fusarium sp. (**Fusarium dimerum** Penz. prox.)

isolated from

brattice cloth used underground in mines, Modderfontein Deep (T.R.L. 1402, det. Thom).

Fusarium diversisporum Sherb.

Bates (1937 b) 206 ; Hopkins (1938 a) 124, (1939 a) 13.

isolated from

Citrus sinensis Osbeck, fruit, Mazoe, *Bates.*

Fusarium Equiseti (Corda) Sacc.

Doidge (1938) 356 ; Doidge & van der Plank (1936) 19.

isolated from

Citrus sinensis Osbeck, fruit, Zebediela, *Doidge.*
Cucumis sativus Linn., stem of wilting plant, Uitenhage, *Haines.*
Lycopersicum esculentum Mill., Pretoria, *Wager ;* Gqaga, *Wager.*
Striga lutea Lour., from stems of dying plants, Ixopo, *Mack.*

Var. **bullatum** (Sherb.) Wollenw.

Doidge (1938) 359.

isolated from

Mesembrianthemum sp., stems of succulent plant, Pretoria, *Wager*, 28448.

Fusarium expansum Schlecht.

on **Phaeochorella Parinarii** (P. Henn.) Theiss. & Syd., on *Parinarium mobola*, Entabeni, *Laughton*, 33436.

Fusarium graminearum Schwabe

Steyn (1934) 175 ; Doidge (1938) 382 ; Gorter (1943) 181.

isolated from

Triticum aestivum Linn., Stellenbosch, *Gorter*, 33357.

Zea Mays Linn., Louis Trichardt, *Leemann*, 28442, 26582 ; Rustenburg, *Watts*, 24866 ; from maize meal, Bethal.

Fusarium heterosporum Nees var. **congoense** Wollenw.

Wollenweber (1931) 350 ; Wollenweber & Reinking (1935) 72 ; Doidge (1938) 371 ; Hopkins (1939 a) 7, (1943) 179.

Fusarium congoense Wollenweber (1916) nos. 306, 307, (1917) 20, 54, (1918) 736.

Fusarium heterosporium var. *congoense f. l.* Wollenweber (1931) 350.

Fusarium congoense var. *septatius* Wollenweber (1924) no. 612.

? as *Fusarium heterosporum* Nees, Pole Evans (1906 a) 139 ; Nel (1942) 106 ; Hopkins (1938 a) 124, (1939 a) 47.

on ovaries (infected with smut or ergot).

of **Bothriochloa glabra** A. Camus, Bulawayo, *Hopkins*.

Brachiaria brizantha Stapf, Barberton, *Mogg*, 7771 ; White River, *Loest*, 28598 ; Salisbury, *Eyles* (v. d. Byl 1801) 11858, *Walters*, 8868.

Bromus catharticus Vahl., Zandspruit, *Gillespie*, 284, 285.

Cenchrus ciliaris Linn., Prinshof, *Mogg*, 26147.

Cynodon Dactylon Pers., Skinner's Court, *Mogg*, 11673 ; without locality, *Burtt Davy*, 577.

Digitaria eriantha Steud., Butterworth, *Pegler*, 7743.

Digitaria monodactyla (Nees) Stapf, Groenkloof, *Pole Evans*, 11874.

Digitaria Pentzii Stent, Durban, *Clarkson*, 23864 ; Prinshof, *Liebenberg*, 25369 ; Donkerpoort, *Doidge & Bottomley*, 29765.

Digitaria sp., Grahamstown, *Liebenberg*, 27514.

Hyparrhenia hirta Stapf, Garstfontein, *Pienaar*, 8905.

Lolium multiflorum Lam., Nottingham Road, *McClean*, 31023.

Panicum laevifolium Hack., Tzaneen, 6 ; Struben's Valley, Roodepoort, *Schaefer*, 33765.

Panicum maximum Jacq., Kentani, *Pegler*, 6649, 6919 ; Butterworth, *Pegler*, 7738 ; Maritzburg, *Sim*, 7760 ; Groenkloof, *Pole Evans*, 9058 ; Barberton, *Wager*, 26152 ; Nelspruit, *Liebenberg*, 26669 ; Durban, *Medley Wood 824*, Kew.

Setaria nigrirostris Dur. & Sch., Leeuwpoort, *Burtt Davy*, 480, Kew.

Setaria perennis Hack., Groenkloof, *Phillips*, 11878 ; Grahamstown, *Liebenberg*, 30457.

Setaria sphacelata Stapf & Hubb., Garstfontein, *Pienaar*, 8906 ; Pretoria, *Liebenberg*, 32195.

Sorghum caffrorum Beauv., Clercqsvlei, Transvaal.

?on**Urochloa mosambicensis** Dandy, Salisbury (Rh. 2086).

Fusarium javanicum Koord.

Wollenweber & Reinking (1935) 181 ; Doidge & Kresfelder (1932) 299 ; Doidge (1938) 443.

isolated from

Cucurbita maxima Duch., stems of wilting plants, Hennops River and Daspoort, *Kresfelder*, 28414 ; Uitenhage, *Haines*.

Cucurbita Pepo Linn., stems of wilting plants, Hennops River and Daspoort, *Kresfelder.*

Var. **radicicola** Wollenw.

isolated from

Chrysanthemum cinerariifolium Viz., crown rot, Mazoe, *Bates*, 33367.
Pelargonium sp., discoloured rhizome, Pretoria, *Wager.*
Solanum tuberosum Linn., tubers, Umhlanga Beach, *v. d. Plank.*

Fusarium lateritium Nees

Bates (1937 b) 206 ; Doidge (1938) 385 ; Doidge & van der Plank (1936) 19.
Fusarium putaminum Thuem., Pole Evans (1913 b) 176.

isolated from

Carica Papaya Linn., fruit, Bokfontein, *Doidge*, 28429.
Citrus Limonia Osbeck, fruit, Rustenburg, *Doidge.*
Citrus sinensis Osbeck, fruit, Zebediela, *Doidge*, 28431, 28395 ; Muden, Rustenburg, White River, Letaba, Sunday's River, *Doidge ;* from twigs, Hankey, *v, d. Plank ;* 28423 ; Ofcalaco, *v. d. Plank ;* from bark, de Wildt, *Doidge ;* Elandshoek, *Simmonds ;* Mazoe, *Bates ;* buds in nursery stock, White River, *Esselen.*
Euphorbia crassipes Marloth, rotting stem, Willeston, 28378, 28391, 28444.
Prunus persica Sieb. & Zucc., fruit, Orchard Siding, *Dicey*, 5637.
Ceroplastes sp., on *Acacia* sp., Grahamstown, *N. J. G. Smith*, 28443.
Lepidosaphes Gloveri Pack. on *Citrus* sp., *v. d. Plank*, 28391.

Var. **longum** Wollenw.

Doidge & van der Plank (1936) 19 ; Doidge (1938) 389 ; Hopkins (1938 a) 124, (1939 a) 14.

isolated from

Citrus Limonia Osbeck, fruit, Sunday's River, *Doidge.*
Citrus sinensis Osbeck, fruit, Sunday's River, *Doidge ;* bark, Letaba, 28417.
Coffea arabica Linn., berries, Lemana, *Watson ;* stems, Umtali (Rh. 1010).

Var. **majus** Wollenw.

Hopkins (1938 a) 124, (1939 a) 13.

isolated from

Citrus sinensis Osbeck, fruit, Mazoe, *Bates.*

Fusarium Lini Bolley

Hopkins (1930) 527.

isolated from

Linum usitatissimum Linn., stem, Southern Rhodesia, *Hopkins.*

Fusarium moniliforme Sheld.

Wollenweber (1931) 391 ; Doidge & Bottomley (1931) 36, 62 ; Doidge & van der Plank (1936) 19 ; Doidge (1938) 393 ; Hopkins (1938 a) 124, (1938 e) 622 ; McMartin (1943) 52.
Fusarium moniliforme var. *erumpens* Wollenw. & Reinking, Hopkins (1938 a) 124, (1939 a) 13 ; Bates (1937 b) 206.

isolated from

Allium Cepa Linn., bulb, Pretoria, *Wager.*
Ananas comosus Merr., fruit, Bathurst, *Doidge.*
Brassica oleracea Linn., stems, Buffelspoort, *Doidge.*
Citrus maxima Merr., fruit, Mazoe, *Bates.*
Citrus sinensis Osbeck, fruit, Sunday's River, Rustenburg, *Doidge ;* Mazoe, *Bates.*
Eleusine indica Gaertn., stems, Acton Homes, *L. A. Doidge.*

Ficus carica Linn., fruit, Pretoria Distr.
Gossypium sp., stems of seedlings, Rustenburg, *Moore.*
Lycopersicum esculentum Mill., seed, Pretoria, *Wager*, 28403.
Musa paradisiaca Linn. var. **sapientum** Kze., fruit, Acornhoek, *Boyce.*
Nicotiana Tabacum Linn., seedlings, Rustenburg, *Moore.*
Persea americana Linn., roots, Malelane, *Wager.*
Phlox Drummondii Hk., stems, Pretoria, *Doidge.*
Pisum sativum Linn., stem, Carnarvon, *Wager.*
Pyrus malus Linn., fruit, Vereeniging, *Bottomley.*
Saccharum officinarum Linn., Eshowe, Upper Tongaat, Tongaat, Mt. Edgecombe, Umhloti, *McMartin.*
Solanum tuberosum Linn., tubers, Umhlanga Beach, *v. d. Plank.*
Sorghum caffrorum Beauv., grain, Pretoria, *F. du Toit.*
Sorghum dochna (Forsk.) Snowd. var. **technicum** (Koern.) Snowd., stem, Pretoria, *F. du Toit.*
Striga lutea Lour., stems, Pretoria, *F. du Toit.*
Triticum aestivum Linn., stems, Losperfontein, *Leemann.*
Zea Mays Linn., stem and cob, Potchefstroom, *Sellschop*, 28664, 28665, 28666 ; Bethal, *Doidge*, 28382 ; Settlers, *E. du Toit :* Louis Trichardt, Pretoria, Immerpan, Warmbaths.
from eggs showing discoloured patches on the membrane, Port Elizabeth, *Bottomley.*

Var. **subglutinans** Wollenw.
Wollenweber & Reinking (1935) 100 ; Doidge & van der Plank (1936) 19 ; Doidge (1938) 398 ; Watt & Breijer-Brandwyk (1932) 215 ; Hopkins (1938 a) 124, (1938 e) 622 ; Cardoso (1945) 149, 155.
isolated from
Brassica oleracea Linn., stems, Buffelspoort, *Turner.*
Citrus sinensis Osbeck, fruit, Rustenburg, *Doidge.*
Crotalaria juncea Linn., stems, Nelspruit, *Retief*, 32129 ; Kat River, *Wager.*
? **Cydonia oblonga** Mill., fruit rot, Mazoe, *Bates 391.*
Kniphofia sp., capsules, Loskop, *Galpin*, 28385.
Musa sp., Manhiça, *Guimarães.*
Pyrus malus Linn., fruit, Vereeniging, *Bottomley.*
Saccharum officinarum Linn., leaf, Natal coast, *McClean ;* Eshowe and Mount Edgecombe, *McMartin.*
Zea Mays Linn., leaves and cob, Bethal, 28381 ; Klip River, *Watts*, 28413 ; Potchefstroom, *Sellschop*, 28666 ; Kinross, 28406 ; Pretoria, *Doidge;* Piet Retief, *Leemann;* Salisbury (Rh. 3417, 3422) ; Umbeluzi, *Oliveira.*
Nomadacris septemfasciata Serv., South West Africa, *Wollenweber.*

Fusarium orthoceras App. & Wollenw.
Doidge & Bottomley (1931) 64 ; du Plessis (1933 d) 7 ; Bates (1937 b) 206 ; Doidge (1938) 405 ; Hopkins (1938 a) 124, (1939) 13.
Fusarium orthoceras var. *albido-violaceum* (Dasz.) Wollenw., du Plessis (1933 d) 8.
isolated from
Citrus sinensis Osbeck, fruit, Mazoe, *Bates.*
Solanum tuberosum Linn., tubers, Mokeetsi, *Doidge ;* Pretoria, *Wager :* Leslie, *Doidge ;* Cedara, *Gill ;* Mt. Edgecombe, *v. d. Plank ;* Stellenbosch, Paarl, George, *du Plessis ;* stem, Molteno, *Wager ;* Stellenbosch, *du Plessis.*

Var. **longius** (Sherb.) Wollenw.
Hopkins (1939 a) 46.
isolated from
Triticum aestivum Linn., foot rot, Headlands, *Hopkins.*

Fusarium oxysporum Schlecht.

Lounsbury (1909) 45 ; Doidge & Bottomley (1931) 64 ; Doidge & van der Plank (1936) 19 ; Doidge (1938) 421 ; Hopkins (1939 a) 13 ; Cardoso (1945) 158.

as *Fusarium oxysporum f.1.* Wollenw., Bates (1937 b) 206 ; Hopkins (1930) 649, (1938 a) 124, (1939 a) 13.

isolated from

Avena sativa Linn., Stellenbosch, 33358.

Carica Papaya Linn., seedlings, eastern Transvaal, *Wager*, 28363.

Citrus sinensis Osbeck, fruit, Sundays River, *Doidge*, 28354, 28356 ; Groot Drakenstein, *Doidge*, 28351, 28352, 28353 ; White River, *Doidge ;* Mazoe, *Bates.*

Coffea robusta Hort., stems, Hartebeestpoort, *Koch*, 28435.

Cucumis Melo Linn., fruit, Cape Town, *Rattray.*

Ipomoea batatas Lam., tuber, Humansdorp, *Wager.*

Lathyrus odoratus Linn., seedlings, Pretoria, *Doidge.*

Passiflora edulis Sims, Pretoria, *Doidge.*

Phormium tenax Forst., Umhlatuzi Estates, *Wager.*

Rheum rhaponticum Linn., Rhodesia, *Hopkins.*

Solanum tuberosum Linn., tubers, Windhoek, Pretoria, Klerksdorp, Port Elizabeth, *Doidge ;* Mokeetsi, *Wager ;* Paarl, Stellenbosch, *du Plessis ;* Stellenbosch, Verwoerd (Stell. 312) ; Baale, Manhiça, *Guimarães.*

Form. 1. Wollenw.

du Plessis (1933 d) 9 ; Doidge (1938) 423 ; Hopkins (1938 a) 124, (1939 a) 43.

isolated from

Solanum tuberosum Linn., haulms and tubers of wilting plants, de Wildt, *Wager;* Moorddrift and Planknek, *Doidge ;* Darling, *du Plessis ;* Gwelo (Rh. 90) ; Bulawayo (Rh. 113) ; Salisbury (Rh. 709) ; Macheke (Rh. 1134) ; Marandellas, (Rh. 3619).

Form 7. Wollenw.

Doidge (1938) 425.

Fusarium Cepae Hanz. em. Link & Bailey, du Plessis (1933 a) ; Nel (1942) 166.

isolated from

Allium Cepa Linn., roots and bulbs, Caledon, Ceres, Cape Peninsula, French Hoek, Riversdale, Tulbagh, *du Plessis ;* Stellenbosch, *du Plessis ;* (Stell. 557 ; v. d. Byl 2666) ; dying seedlings, Pyramids, *Mogg*, 28393 ; bulbs and leaf bases, Nelspruit, *Wager*, 28433.

Allium Cepa var. **solaninum** Alef., south-western Cape, *du Plessis.*

Allium porrum Linn., south-western Cape, *du Plessis.*

Allium sativum Linn., south-western Cape, *du Plessis.*

Form 8. Snyder.

Doidge (1938) 427.

Fusarium vasinfectum Atk. var. *Pisi* v. Hall, Hopkins (1930) 529.

isolated from

Pisum sativum Linn., stems of wilting plants, Tygerpoort, *Fourie ;* Southern Rhodesia, *Hopkins.*

Var. **aurantiacum** (Link.) Wollenw.

du Plessis (1936) 15 ; Doidge (1938) 428.

isolated from

Antirrhinum majus Linn., stems, Johannesburg, *Wager.*

Arachis hypogaea Linn., pods, Pretoria, *F. du Toit.*

Brassica oleracea Linn., stems of wilting plants, Witpoortjie, *Doidge.*
Cupressus lusitanica Mill., seedlings, Xumeni Forest, *D.F.O.*
Phaseolus vulgaris Linn., stems, Nelspruit, *Wager ;* Swaziland.
Pinus longifolia Roxb., seedlings, northern Transvaal, *Bottomley.*
Pinus palustris Mill., seedlings, St. Lucia Bay, *D.F.O.*
Pinus taeda Linn., seedlings, St. Lucia Bay, *D.F.O.*
Vitis vinifera Linn., berries, south-western Cape, *du Plessis.*

Var. **cubense** (E. F. Sm.) Wollenw.
isolated from
Musa Cavendishii Lamb., Cavendish, *Wager ;* Coedmore, *Wager.*
Musa paradisiaca Linn. var. **sapientum** Kze., Mount Edgecombe, *Storey.*
Musa spp., Verulam, Phoenix, Winkle Spruit, *Storey.*

Var. **Gladioli** Massey
Doidge (1938) 430.
isolated from
Gladiolus sp., corms and leaf bases, Pretoria, *Doidge ;* Hartebeestpoort, *Sieling*, 34548 ; Umtali, *Hopkins* (Rh. 6281).

Var. **Nicotianae** Johns.
Moore (1926) 428 ; Doidge (1938) 424 ; Doidge & Bottomley (1931) 62.
isolated from
Nicotiana Tabacum Linn., stems, Buffelspoort, *Moore.*

Fusarium redolens Wollenw., **f.l.** Wollenw.
Doidge (1938) 440.
isolated from
Lycopersicum esculentum Mill., seed, Pretoria, *Wager.*

Fusarium reticulatum Mont. **f.l.** Wollenw.
isolated from canned, pasteurized cheese, Durban, *Wickens.*

Fusarium sambucinum Fuck.
Wollenweber (1931) 352 ; du Plessis (1933 d) 12 ; Doidge (1938) 375.
Doidge & van der Plank (1936) 20.
Fusarium roseum Kalchbrenner (1882 b) 27 ; Sacc. Syll. Fung. IV : 699.
sub *Fusarium granulari* Kalchbr. in museo bot. Berolini ex herb. Winter et in Herb. S.A.M ; Wollenweber (1916) no. 313.
on **Datura Stramonium** Linn., dry stems, Somerset East, *MacOwan 1068* (S.A.M. 35314).
isolated from
Citrus sinensis Osbeck, fruit, White River, Zebediela, Sundays River, Groot Drakenstein, Rustenburg, *Doidge ;* from air in pack house, Zebediela, 28439.
Lycopersicum esculentum Mill., petioles, Gqaga, 28421.
Solanum tuberosum Linn., tubers, Ceres, *du Plessis.*
Lepidosaphes Gloveri Pack. on Citrus twigs, Chase Valley, *v. d. Plank*, 28438.

Form 2. Wollenw.
Doidge & van der Plank (1936) 20 ; Doidge (1938) 20.
isolated from
Citrus sinensis Osbeck, fruit, Groot Drakenstein, *Pickstone*, 28350, 28357 ; Rustenburg, *Doidge*, 28355 ; White River, *Doidge.*
Lepidosaphes Gloveri Pack., Chase Valley, *v. d. Plank*, 28415.

Form 6. Wollenw.

Wollenweber & Reinking (1935) 78 ; Doidge (1938) 380.
on **Nomadacris septemfasciata** Serv., South West Africa, *Wollenweber.*

Fusarium Scirpi Lamb. & Fautr.

Doidge & van der Plank (1936) 20 ; Doidge (1938) 360 ; Hopkins (1938 a) 125.
isolated from
Allium Cepa Linn., seedlings, Pyramids, *Mogg.*
Antirrhinum majus Linn., stems, Wepener, *Wager.*
Arachis hypogaea Linn., pods, Pretoria, *F. du Toit.*
Callistephus chinensis Nees, stems, Pretoria, *Wager ;* Hennops River, *Havenga.*
Carica Papaya Linn., fruit, Buffelspoort, Warmbaths.
Centaurea Cyanus Linn., stem, Johannesburg, *Wager.*
Citrus Limonia Osbeck, roots, Elandshoek, *Simmonds,* 28411 ; Bonnievale, *v. d. Hoek,* 28430.
Citrus maxima Merr., bark, Patentie.
Citris nobilis Lour. var. **deliciosa** Sw., twig, East London, *Turner.*
Citrus sinensis Osbeck, fruit, Zebediela, Rustenburg, Groot Drakenstein, Muden, *Doidge ;* bark, Godwan River, *v. d. Plank ;* Letaba Estates, *Matthew.*
Crotalaria juncea Linn., stems, Pretoria, *F. du Toit.*
Cucumis sativus Linn., fruit, Nelspruit, *Wager ;* stems, Port Elizabeth, *Haines.*
Cucurbita Pepo Linn., fruit, Irene, *Bottomley.*
Dianthus caryophyllus Linn., stems, Golden Valley, Cape, *Wager ;* Pretoria, *Wager,* 28424 ; Hartebeestpoort ; Duivelskloof, *Wager.*
Eleusine indica Gaertn., stems, Acton Homes, *L. A. Doidge.*
Euphorbia crassipes Marloth, stems, Willeston.
Kentia sp., stem, Uitenhage.
Lathyrus odorata Linn., Pretoria, *Doidge.*
Limonium sp., Nelspruit, *Wager.*
Lychnis viscosa Linn., Pretoria, *Doidge.*
Lycopersicum esculentum Mill., stems, Windhoek, *Wager ;* petioles, Gqaga ; stems, Karino, *Wager,* 28432 ; blossom end rot of fruit, Pyramids.
Matthiola incana R. Br., stem, Johannesburg, *Wager.*
Musa paradisiaca L. var. **sapientum** Kze., fruit, Acornhoek, *Boyce.*
Papaver nudicaule Linn., crown, Pretoria, *Wager.*
Phlox Drummondii Hk., stem, Pretoria, *Doidge.*
Pinus sp., seedlings, Heidelberg, 28392.
Pisum sativum Linn., stems, Carnarvon, *Wager.*
Pteridium aquilinum (L.) Kuhn, White River, *Wager.*
Pyrus malus Linn., fruit, Vereeniging, *Bottomley.*
Solanum tuberosum Linn., tubers, Pretoria.
Zea Mays Linn., roots, Shamva (Rh. 403, 421).
Icerya purchasi Mask., on Mentha sp., Grahamstown, *N. J. G. Smith.*
Nomadacris septemfasciata Serv., eggs, Pretoria, *Brooks.*

Var. **acuminatum** (Ell. & Everh.) Wollenw.

Wollenweber (1931) 335 ; Doidge (1938) 366, 468 ; Hopkins (1938 a) 125.
Fusarium (*Fusidium*) *Aloes* Kalchbrenner & Cooke (1880) 23 ; Sacc. Syll. Fung. IV : 721 ; Wollenweber (1916) no. 167.
on **Aloe arborescens** Mill., Somerset East, *MacOwan 1170, 1473,* Kew.
isolated from
Dianthus caryophyllus Linn., stems, Bethlehem, Sterkstroom, Estcourt.
Nicotiana Tabacum Linn., rotting leaf, Banket (Rh. 3795).

Phaseolus sp., Mvamba.
Solanum tuberosum Linn., tubers imported from Germany.
Vitis vinifera Linn., superficial on bark, eastern Transvaal.
Zea Mays Linn., stem, Lourenço Marques, *Fuller*, 23222 ; Premier Mine, *Leemann*.

Var. **compactum** Wollenw.

Doidge & van der Plank (1936) 20 ; Doidge (1938) 364.
isolated from
Antirrhinum majus Linn., stem, Pretoria, *Wager*.
Campanula Medium Linn., stem, Kimberley, *Wager*.
Citrus sinensis Osbeck, fruit, Rustenburg, Zebediela, Letaba, *Doidge*.
Cucumis sativus Linn., fruit, Nelspruit, *Wager*.
Lathyrus odoratus Linn., seedlings, Pretoria, *Wager*, 28416.
Limonium sp., stems, Nelspruit, *Wager*, 28377.
Matthiola incana R. Br., stem, Johannesburg, *Wager*, 28412.
Papaver Rhoeas Linn., stem., Pretoria, *Wager*, 28425.
Striga lutea Lour., stem, Ixopo, *Mack*.

Var. **filiferum** (Preuss.) Wollenw.

Wollenweber & Reinking (1935) 69 ; Doidge (1938) 368 ; Hopkins (1939 a) 21.
isolated from
Allium Cepa Linn., seedlings, Pyramids, *Mogg*, 28418.
Gossypium sp., boll rot, Gatooma, *Hopkins*.
Nomadacris septemfasciata Serv., South-west Africa, *Wollenweber*.

Fusarium semitectum Berk. & Rav. var. **majus** Wollenw.

Doidge & van der Plank (1936) 20 ; Doidge (1938) 353.
Fusarium incarnatum (Rob.) Sacc., Eyles (1926) 633.
isolated from
Citrus Limonia Osbeck, fruit, Sunday's River.
Citrus sinensis Osbeck, fruit, White River, Zebediela, Letaba, Sundays River, *Doidge;* twigs, Hankey, *v. d. Plank*, 28400 ; bark, Mazoe, *Eyles*.
Dianthus caryophyllus Linn., stems, Durban, *McClean*.
Musa paradisiaca Linn., var. **sapientum** Kze., fruit, Acornhoek, *Boyce*.
Striga lutea Lour., stems, Ixopo, *Mack*.
Glossina sp., Zululand, *Harris*, 28446.
Nomadacris septemfasciata Serv., Pretoria.
from eggs with discoloured membrane, Port Elizabeth.

Fusarium Solani (Mart.) Appel & Wollenw.

Lounsbury (1909) 43 ; du Plessis (1932), (1933 d) 11 ; Bates (1937 b) 206 ; Doidge (1938) 447 ; Hopkins (1938 a) 125, (1939 a) 13, 21, 44 ; Nel (1942) 107.
isolated from
Allium Cepa Linn., bulbs and stems, Stellenbosch, *du Plessis* (v. d. Byl 2655) ; Nelspruit *Wager*, 28383.
Carica Papaya Linn., stem, Maritzburg, *Wager*, 28389 ; Malelane, *Wager*, 28374, 28375.
Citrus Limonia Osbeck, roots, Louis Trichardt ; Bathurst, *v. d. Plank ;* Hankey, *v. d. Plank*, 28371 ; Acornhoek, 28396 ; Tzaneen, *Wager ;* Elandshoek, 28372 ; Coegapoort, *v. d. Plank*.
Citrus maxima Merr., Patentie, *v. d. Plank*, 28401 ; Coegapoort, *v. d. Plank*.
Citrus sinensis Osbeck, bark and roots, Letaba ; Mazoe, *Bates*, 28394 ; Villiersdorp, 28360 ; fruit, Mazoe, *Bates*.
Dianthus caryophyllus Linn., stem, Pretoria, *Doidge*.

Gilia rubra Heller, stem, Acton Homes, *Doidge.*
Gladiolus sp., corm, Pretoria.
Godetia sp., roots, Salisbury (Rh. 2698).
Phaseolus vulgaris Linn', stems, Swaziland.
Solanum tuberosum Linn., tubers, Ceres, George, Paarl, Stellenbosch, *du Plessis ;* Odzi (Rh. 1438).
Tropaeolum majus Linn., stems, Pretoria.
Zea Mays Linn., stem, Waterberg, *Sellschop.*

Var. **Martii** (Appel & Wollenw.) **f.l.** Wollenw.

Doidge & van der Plank (1936) 20 ; Doidge (1938) 450.
isolated from
Allium Cepa Linn., bulb, Pretoria, *Bottomley.*
Carica Papaya Linn., stems, Maritzburg, *Wager ;* Buffelspoort, *Wager,* 28373 ; Nelspruit, *Wager.*
Centaurea moschata Linn., stems, Pretoria, *Wager.*
Citrus Limonia Osbeck, roots, Grahamstown, *v. d. Plank,* 28376 ; Louisvale, *Turner,* 28398 ; Addo, 28368 ; Citrusdal, Turner, 28369 ; Kakamas, *Gutsche ;* Hankey, *v. d. Plank ;* Kruis Rivier, *v. d. Plank,* 28397 ; Gamtoos Valley, *v. d. Plank ;* Godwan River, *Marloth ;* Swanepoelsrust, 28366 ; Plaston, *Esselen ;* White River and Buffelspoort, *Turner ;* Avonmore and Kosterfontein, ; *Esselen* Magaliesberg, *v. d. Plank ;* Airlie, *v. d. Plank ;* White River, *Esselen,* 28370 ; Ofcalaco, *v. d. Plank ;* Elandshoek ; Boskoppies.
Citrus maxima Merr., bark, Patentie, *v. d. Plank.*
Citrus sinensis Osbeck, bark and wood, Letaba Estates ; Boschrand, *Turner ;* Elandsdrift, *Turner ;* Klaver, *V. A. Putterill ;* Villiersdorp, 28358, 28361 ; Frantzina's Rust, *v. d. Plank ;* fruit, Sundays River, White River, Rustenburg, Letaba, Zebediela, *Doidge.*
Delphinium cultorum Voss, crown, Pretoria, *Bottomley ;* Qumbu.
Lathyrus odoratus Linn., stems of seedlings, Pretoria, *Doidge.*
Matthiola incana R. Br., stems, Uitenhage, *Wilson ;* Durban, *McClean,* 28365.
Medicago sativa Linn., stem, Pietersburg, *Wager,* 28386.
Penstemon gloxinoides Hort., stem, Pretoria.
Phaseolus acutifolius Gray var. **latifolius** Freem., Immerpan, *Sellschop.*
Phaseolus vulgaris Linn., Mvamba.
Pisum sativum Linn., stems of wilting plants.
Rheum rhaponticum Linn., crown, Balfour, Transvaal, *Wager,* 28404.
Solanum tuberosum Linn., stems, Moorddrift and Pretoria.
Tropaeolum majus Linn., stem, Pretoria, *Doidge,* 28449.
Nomadacris septemfasciata Serv., eggs, Pretoria, *Brookes.* 28364.

Var. **Martii** (Appel & Wollenw.) **f.** 2. Snyder.

Hopkins (1938 b) 417, (1939 a) 24.
isolated from
? **Lathyrus odoratus** Linn., stems of wilting seedlings, Salisbury, *Hopkins.*

Fusarium sporotrichioides Sherb.
isolated from
Triticum aestivum Linn., base of culm, Stellenbosch, *Gorter,* 33359.

Fusarium stilboides Wollenw.

Doidge & van der Plank (1936) 21 ; Doidge (1938) 391.
isolated from
Carica Papaya Linn., fruit, Bathurst.

Citrus sinensis Osbeck, fruit, White River, *Doidge.*
Coffea arabica Linn., berries, Lemana, *Watson*, 28408.

Fusarium vasinfectum Atk.

Doidge (1938) 432 ; Cardoso (1937) 154 (1939) 44, (1945) 158.
isolated from
Gossypium sp., stem, Mbabane, *Moore ;* Rustenburg, *Moore ;* Pietersburg, *Doidge ;* Kaffirskraal, *Bottomley ;* Maxixe, *Cardoso ;* Massinga, *Gomes e Souza.*
Hibiscus sabdariffa Linn., stem, Schagen, *Wager.*

Form 2. Wollenw. & Reinking

Doidge & van der Plank (1936) 21 ; Doidge (1938) 434 ; Hopkins (1938 a) 125.
as *Fusarium vasinfectum* Atk., Hopkins (1930) 647, 649, (1939 a) 15.
isolated from
Antirrhinum majus Linn., Southern Rhodesia, *Hopkins.*
Citrus Limonia Osbeck, roots, Bonnievale, *v. d. Hoek*, 28402 ; Prudential Estates, 28440.
Citrus sinensis Osbeck, bark, Grahamstown, *Jolly*, 28420 ; Letaba Estates ; roots, Villiersdorp, 28359 ; fruit, Sundays River, White River, *Doidge.*
Crotalaria juncea Linn., roots, Mazoe (Rh. 758) ; Sinoia (Rh. 759).
Matthiola incana R. Br., stems, Uitenhage, *Wilson.*
Mesembrianthemum sp., stem, Pretoria, *Wager.*
Penstemon gloxinoides Hort., stem, Rhodesia, *Hopkins.*
Sesamum orientale Linn., stems, Pretoria, *F. du Toit.*

Var. **lutulatum** (Sherb.) Wollenw.

Doidge (1938) 436.
isolated from
Centaurea moschata Linn., stems, Pretoria, *Wager*, 28405.
Lathyrus odoratus Linn., stems, Pretoria, *Doidge.*
Pisum sativum Linn., stems, eastern Transvaal, *Wager.*
Var. **zonatum** (Sherb.) **f.l.** (Link & Bailey) Wollenw.
Doidge (1938) 438.
isolated from
Lycopersicum esculentum Mill., stem, Matatiele, *Wager*, 28387.

Var. **zonatum** (Sherb.) **f.** 2 (Link & Bailey) Wollenw.
Doidge (1938) 439.
isolated from
Allium Cepa Linn., bulbs and leaf bases, Nelspruit, *wager*, 28384 ; Eikenhof, *Bottomley ;* Pretoria, *Wager*, 28407.

Fusarium sp. (**Fusarium vasinfectum** Atk. prox.)

Hopkins (1932) 465.
on **Cyamopsis psoraleoides** DC., Southern Rhodesia, *Hopkins.*

Fusarium sp.

Hopkins (1930) 524.
isolated from
Eschscholzia californica Cham., Southern Rhodesia, *Hopkins.*

Fusarium sp.

J. Phillips (1924) 289.
on **Ocotea bullata** E. Mey., fruits, Knysna, *J. Phillips.*

STAUROSPORAE.

Tetracium rectisporum (Cooke & Mass.) Petch
on **Lepidosaphes Gloveri** Pack on *Citrsu sinensis*, Maritzburg, *v. d. Vyver*, 26320, *Kelly*, 12175 ; Chase Valley, *v. d. Plank*, 26136 ; Durban, *Doidge*, 27293, *Wager*, 33497 ; *Gottberg*, 26698 ; Verulam, *Wager*, 35554 ; Bathurst, *Hepburn*, 35281.
Lepidosaphes pinnaeformis Bouché on *Citrus sinensis*, Maritzburg, *Fouche*, 27283 ; Town Bush Valley, *v. d. Vyver*, 26320.
Parlatoria Zizyphi Lucas on *Citrus sinensis*, Verulam, *Wager*, 35554.

DEMATIEAE.

AMEROSPORAE.

Epicoccum Chrysanthemi du Plessis
du Plessis (1933 c) 6, 11 ; Nel (1942) 106.
on **Chrysanthemum** sp., Paarl, *du Plessis* (Stell. 797 ; van der Byl 2667).

Epicoccum granulatum Lenz.
Hopkins (1930) 418.
on **Citrus sinensis** Osbeck, causing leaf spot, Rhodesia, *Hopkins*.

Epicoccum humicola (Buchanan) Sacc.
isolated from **Triticum aestivum** Mill., Stellenbosch, *Gorter*, 33364.

Epicoccum neglectum Desm.
? on **Oryza sativa** Linn., Umhlatuzi Valley, *Wager*, 33957.

Epicoccum nigrum Link.
Hopkins (1931 c) 665.
on **Gladiolus** sp., corms, Rhodesia, *Hopkins*.

Epicoccum purpurascens Ehrenb.
Hopkins (1938 a) 124, (1939 a) 22.
isolated from
Citrus nobilis Lour. var. **deliciosa** Sw., twig, East London, *Turner*, 25954.
Gossypium sp. ('yellow lint rot') Gatooma, Salisbury, Concession, *Hopkins*.
from butter showing red discolouration, Pretoria.

Hadotrichum Phragmitis Fuck.
on **Phragmites communis** Linn., Kentani, *Pegler 2312*, Kew.

Myrothecium verrucaria Alb. & Schw.
Preston (1943) 166.
isolated from
Citrus sinensis Osbeck, surface washings from fruit, Mazoe, *Bates 162*, 34013.

Papularia sphaerosperma (Fr.) v. Höhn.
Hopkins (1939 a) 33.
on **Phragmites communis** Trin., Penhalonga, *Hopkins*.
on underground mine timber, Robinson Deep (T.R.L. 347, det. Baarn).

Didymosporae.

Pucciniopsis caffra Wakef.

Wakefield (1931) 205.

on **Erica caffra** Linn., van Staden's Pass, *Doidge*, 10865, Type, Kew; Howieson's Poort, *Doidge*, 10964.

Pucciniopsis sp.

on **Syzygium cordatum** Hochst., Eshowe, *McClean*, 33092.

Trichodochium disseminatum Syd.

on **Rapanea melanophleos** Mez., Woodbush, *Doidge*, 29881; Mariepskop, *Scott*, 31035.

Phragmosporae.

Exosporium Celastri Kalchbr.

Kalchbrenner & Cooke (1880) 24; Sacc. Syll. Fung. IV: 756.

on **Gymnosporia buxifolia** Szysz., Somerset East, *MacOwan 1396*, 20815, Kew.

Exosporum palmivorum Sacc.

Hopkins (1938 a) 124, (1939 a) 33; Doidge & Bottomley (1931) 45.

on **Phoenix reclinata** Jacq., Durban; Umtali (Rh. 2944, 3143).

Dictyosporae.

Cerebella Cynodontis Syd.

H. & P. Sydow (1912 a) 45; Hopkins (1938 a) 124, (1943) 183.

associated with *Sphacelia* stage of *Claviceps* sp.

on **Cynodon Dactylon** Pers., ovaries, Pretoria, 682; Skinner's Court, *Mogg*, 11675; Donkerpoort, *Doidge & Bottomley*, 29773; Rietondale, *Liebenberg*, 33079; Kentani, *Pegler*, 2189; Fort Beaufort, *Creyer*, 32075; Estcourt, *West*, 29959; near Zoo, Pretoria, *E. J. Scott*, 34104; Univ. Exp. Farm, Pretoria, *E. J. Scott*, 34105; Salisbury, *Hopkins* (Rh. 4847).

Cynodon plectostachyum Pilg., S. Rhodesia.

Cerebella spp.

associated with *Sphacelia* stage of *Claviceps Digitariae* Hansf.

on **Digitaria eriantha** Steud. Mountain Rise, *Doidge*, 1622; Prinshof, *Mogg*, 25462; *Liebenberg*, 25370; Grahamstown, *C. D. B. Liebenberg*, 27515.

Digitaria Pentzii Stent, Donkerpoort, *Doidge & Bottomley*, 29763.

Digitaria ternata Stapf, Kentani, *Pegler*, 7742.

associated with *Sphacelia* stage of *Claviceps Paspali* Stev. & Hall.

on **Paspalum scrobiculatum** L. var. **Commersonii**, Mtunzini, *Mogg*, 17046.

associated with *Sphacelia* stage of *Claviceps* sp.

on **Brachiaria brizantha** Stapf, Krabbefontein, *Mogg*, 8400; Nelspruit, *Pienaar*, 10100; White River, *Liebenberg*, 26673, *Loest*, 28598.

associated with *Sphacelia* stage of *Claviceps* sp.

on **Panicum obscurans** Stapf, Xumeni Forest, *Doidge*, 32220.

associated with *Sphacelia* stage of *Claviceps* sp. on

on **Cyperus rotundus** Linn., Univ. Exp. Farm, Pretoria, *E. J. Scott*, 34103.

Cyperus sp., Mt. Edgecombe, *McMartin*, 35160.

associated with *Sphacelia* sp. on *Andropogoneae*.
on **Bothriochloa glabra** A. Camus, Pienaar's River, *Thomson*, 15061.
Bothriochloa insculpta, A. Camus, Olifants River, *Pole Evans*, 14169 ; Prinshof, *Mackay*, 20370 ; Louis Trichardt, *Mitchell*, 25359 ; The Willows, *Schaefer*, 34080.
Cymbopogon elegans, Spreng, Buccleuch, *J. M. Sim*, 9742.
Cymbopogon marginatus Stapf, Tzaneen, *v. d. Byl 1489* (as *Tolyposporium Volkensii* P. Henn. in van der Byl 1926 c : 287 and Nel, 1942 : 59).
Cymbopogon sp., Krabbefontein, *Mogg*, 8401.
Heteropogon contortus, R. & S., Potgietersrust, *Maine*, 11720.
Hyparrhenia filipendula Stapf, Nottingham Road, *v. d. Byl 66*, *566* (as *Tolyposporium Volkensii* in van der Byl 1926 c : 287 and Nel 1942 : 59).
Hyparrhenia glauca Stent, The Willows, *Schaefer*, 34082.
Hyparrhenia hirta Stapf, Groenkloof, *Mackay*, 20415 ; Irene, *Pole Evans*, 20427 ; The Willows, *Schaefer*, 34081.
Hyparrhenia Tamba, Anderss., Fountains Valley, *Mogg*, 34079 ; Camperdown, *Franks*, 6690.
Hyparrhenia sp., S. Rhodesia (as *Cerebella Andropogonis* Ces., Hopkins 1938 a : 124, 1939 a : 45) ; Cedara, *Baker*, 6679.
Miscanthidium sp., Kentani, *Pegler*, 6922.
Themeda triandra. Forsk., Salisbury (Rh. 2144, as *Cerebella Andropogonis* Ces. in Hopkins 1938 a : 124, 1939 a : 45).
associated with *Sphacelia* sp. on *Paniceae*.
on **Cenchrus ciliaris** Linn., Salisbury, *Hopkins* (as *Cerebella cenchroides* Subram. in Hopkins 1939 a : 10, 31).
Panicum deustum Thunb., Xumeni Forest, *Doidge*, 34118.
Panicum maximum Jacq. Groenkloof, *Pole Evans*, 9057 ; Kentani, *Pegler*, 6648, 6918, 7739 ; Munnik, *E. J. Scott*, 34114.
Pennisetum spicatum Koern., Visgat, Letaba, *Curson*, 28822 ; without locality, *Sec. for Native Affairs*, Kew.
Urochloa pullulans, Stapf, Salisbury (Rh. 1983, 2013, 2084).
Urochloa trichopus, Stapf, Munnik, *E. J. Scott*, 34115 ; Salisbury, *Hopkins* (as *Cerebella Panici* Earle in Hopkins 1938 a : 124, 1939 a : 47).

Staurosporae.

Spegazzinia Meliolae Zimm.

Doidge (1920 c) 118 ; Doidge & Sydow (1928) 451 ; Nel (1942) 107 ; Hansford (1946 a) 220.

on **Asterina natalitia** Doidge on *Eugenia zuluensis*, Umzinto, *Wager*, 32683 c.
Balladynastrum glabrum Hansf., on *Canthium Gueinzii*, Woodbush, *Doidge*, 1744 c.
Irene Peddieae Doidge on *Peddiea africana*, Woodbush, *K. M. Putterill*, 32465 a.
Irene scabra Doidge on *Trichocladus crinitus*, Izelini Forest, 11611 c ; Stutterheim, *Laughton*, 33540 ; Deepwalls, *Bottomley*, 32209 ; on *Trichocladus ellipticus*, Hogsback, *K. M. Putterill*, 30087.
Irene Strophanthi Doidge on *Strophanthus speciosus*, Xumeni Forest, *Doidge*, 32215 a.
Meliola Behniae Syd. on *Behnia reticulata*, Woodbush, *Doidge*, 28466 a.
Meliola Carissae Doidge on *Carissa bispinosa*, Storms River, *Doidge*, 17189 a ; Pirie Forest, *Doidge*, 22397 a.
Meliola claviculata Doidge on *Oncoba* sp., Quelimane, *Pole Evans*, 7388.
Meliola furcillata Doidge on *Allophylus monophyllus*, Buccleuch, *Doidge*, 11577 b.
Meliola Goniomae Doidge on *Gonioma Camassi*, Deepwalls, *Bottomley*, 32122 b.
Meliola Ochnae Doidge on *Ochna natalitia*, Tabankulu, *D.F.O.*, 9103 ; Pirie Forest, *Doidge*, 22410 b.
Meliola Toddaliae Doidge on *Teclea natalensis*, Buccleuch, *Doidge*, 11564 a.

Meliola torta Doidge on *Trichocladus crinitus*, Deepwalls, *Doidge*, 17195 b ; Storms River, *Doidge*, 17170 b ; Izelini Forest, *Emmett*, 9066 a.
Meliola transvaalensis Doidge on *Myrsine africana*, Woodbush, *Doidge*, 17746 a.
Meliola Woodiana Sacc. on *Canthium* sp., Xumeni Forest, *Doidge*, 33502.

STILBACEAE.

HYALOSTILBEAE.

Amerosporae.

Gibellula aranearum (Schw.) Syd.

Petch (1932) 390.
Gibellula Haygarthii, van der Byl (1922 a) 149.
on a spider of the family **Lycosidae**, Krantzkloof, *Haygarth*.

Isaria coralloidea Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 22 ; Sacc. Syll. Fung. IV : 593.
on rotten wood, Somerset East, *MacOwan 69*, Type, Kew.

Isaria Psychidae Pole Evans

Pole Evans (1912 a) 281, (1912 b) 63 ; Pole Evans & Bottomley (1918) 193 ; Skaife (1920) 298 ; Nel (1942) 106.
on **Acanthopsyche Junodi** Heyl on *Acacia mollissima*, Cramond, *Mackenzie*, 2179, Type, 7083 ; Ukasini Estates, *Glasse*, 5597 ; Ladysmith, *Gunn*, 11535 ; Kentani, *Pegler 1919* ; Cedara, *Skaife & Ripley*, Kew ; Krantzkloof, *Haygarth* (v. d. Byl 392).

Isaria sp.
on **Gonipterus scutellatus** Gyl., Stellenbosch, *Brain*.

Isaria sp.

Skaife (1925) 298 ; Schaefer (1936) 7.
on **Locustana pardalina** Walk., South West Africa, *Skaife*.

Isaria sp.
on **Naudaurelia tyrrhaea** Cram., chrysalis, Vereeniging, *Brandmuller*.

Stilbum aurantio-cinnabarinum Speg.

Wakefield (1936) 53.
Sphaerostilbe rosea Kalchbr., Kalchbrenner & Cooke (1880) 26 ; Sacc. Syll. Fung. II : 517.
Stilbum Kalchbrenneri Saccardo, Syll. Fung. IV : 570.
sub *Sphaerostilbe incarnata* Kalchbr. in Herb. MacOwanianum.
on **Acacia cyclops** Cunn., Varkensvlei, *Dippenaar* (Stell. 1059).
Acacia Karroo Hayne, Boschberg, Somerset East, *MacOwan 1118*, 20829, Kew.
Acacia sp., Kenilworth, *Pearson*.
Carya Pecan Engl. & Graebn., Cedara, *Fisher*, 2152.
on host undet., Kloof Nek, Hφeg 81, Kew ; Garstfontein, *Pienaar*, 2151.

Stilbum caespitosum Welw. & Curr.

Welwitsch & Curry (1868) 291 ; Lorrain Smith (1901) 478.
Cilicipodium caespitosum (Welw. & Curr.) Saccardo IV : 577.
on **Ficus** sp., bark, near Lopollo, *Welwitsch 131.*

Stilbum cineripes Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 22 ; Sacc. Syll. Fung. IV : 574.
on bark, Natal, *Medley Wood 214*, Type, Kew.

Stilbum cinnabarinum Mont.

van der Byl (1925 b) 196 ; Verwoerd (1931 a) 301 ; Hopkins (1938 a) 125 ; Nel (1942) 106.
on **Bambusa** sp., Salisbury, *Eyles 4093* (Stell. 271 ; v. d. Byl 2348).
Populus sp., on bark, Frenchhoek, *Bosman* (v. d. Byl 1710).
on host undet., Bloemfontein, *Verwoerd ;* Knysna, *v. d. Byl 368.*

Stilbum connatum Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 22 ; Medley Wood (1898) 19 ; Sacc. Syll. Fung. IV : 573.
on wood, Somerset East, *MacOwan 126* (fide Kalchbr. & Cooke, l.c., type is *MacOwan 196*) ; Natal, *Medley Wood 516*, 10650, Kew.

Stilbum fimetarium Pers.

Kalchbrenner (1882 b) 27 ; Sacc. Syll. Fung. IV : 572.
on dung of *Procavia capensis* (dassie), Somerset East, *MacOwan 1178.*

Var. **Simiarum** Kalchbr.

Kalchbrenner (1882 b) 27.
on dung of *Papioursinus* sp. (baboon) Somerset East, *MacOwan 1382*, Kew.

Stilbum lateritium Berk.

Montagne (1847) 176 ; Sacc. Syll. Fung. IV : 571.
on branches, Zuureberg, nr. Bontjesrivier, *Drège 9462.*

Stilbum physaroides Kalchbr.

Cooke (1890 b) 6 ; Sacc. Syll. Fung. IV : 575, X : 684.
on stems of herbaceous plants, Cape, *MacOwan*, " Kalchbr. 469 ", Kew.

GENUS DUBIUM.

Polycephalum aurantiacum Kalchbr. & Cooke

Kalchbrenner & Cooke (1880) 23 ; Sacc. Syll. Fung. IV : 576.
on rotten wood, Somerset East, *MacOwan 1353*, Kew.
Fide Thaxter, 1892 : 401, this is probably a synonym for *Chondromyces aurantiacus* (Berk. & Curt.) Thaxt. ; Chondromyces is a genus of the Myxobacteriaceae. See also Ainsworth & Bisby (1943) 241.

PHRAGMOSPORAE.

Arthrosporium parasiticum Wint.

on **Irene inermis** (Kalchbr. & Cooke) Theiss. & Syd. on *Buddleia pulchella*, Buccleuch, *Doidge*, 11568 a.

Irene Peglerae Doidge on **Halleria lucida**, Deepwalls, *Doidge*, 17200 a.
Meliola littoralis Syd. on *Psychotria capensis*, Umkomaas, *Bottomley*, 11891 a.
Meliola sp. on *Barleria obtusa*, Amanzimtoti, *Doidge*, 6623 a.
Meliola Woodiana Sacc. on *Canthium ventosum*, Durban, *Bottomley*, 11385 d ; Keurkloof Forest, *Doidge*, 17110 a ; on *Canthium spinosum*. Keurkloof Forest, *Doidge*, 17119 b.

PHAEOSTILBEAE.

Phragmosporae.

Arthobotryum melanoplaca Berk. & Curt.
Hansford (1941 a) 218.
on **Meliola torta** Doidge on *Trichocladus crinitus*, Izelini Forest, *Emmett*, 9064 c.

Isariopsis Fuckelii (Thuem.) du Plessis
du Plessis (1942 a), (1942 b) 62.
on **Vitis vinifera** Linn., Stellenbosch, Wellington, *du Plessis*.

EREMASCACEAE IMPERFECTAE.

Candida bethaliensis (Pijper) Dodge
Dodge (1936) 229, 231.
Monilia sp., Pijper (1917 a) 129.
Monilia bethaliensis Pijper, Castellani & Chalmers (1919) 1091.
on **Man :** isolated from sputum of patient suffering from cough, periods of feverishness, bronchitis, hyperleucocytosis, *Pijper*.
" One is suspicious that the extremely slender mycelium of *Candida bethaliensis* belongs to Actinomyces " Dodge, 1936 : 229.

? **Candida Krusei** (Castellani) Basgal
Monilia Krusei Castellani & Chambers (group) Pijper (1923) 108.
on **Man :** isolated from sputum in cases of bronchomoniliasis, *Pijper*.

? **Castellania balcanica** (Castellani & Chalmers) Dodge
Monilia balcanica Castellani & Chalmers (group) Pijper (1923) 108.
on **Man :** isolated from sputum, in a number of cases of bronchomoniliasis, *Pijper*.

Castellania linguae-pilosae (Lucet) Dodge
Cryptococcus linguae-pilosae Castellani & Chalmers
on **Man :** isolated from several cases of black tongue, Johannesburg, *H. I. Lurie*.

? **Castellania pseudolondinensis** (Castellani & Chalmers) Dodge
Monilia pseudolondinensis Castellani & Chalmers (group), Pijper (1923) 108.
on **Man :** isolated from sputum in two cases of bronchomoniliasis, *Pijper*.

? **Castellania pseudotropicalis** (Castellani) Dodge
Monilia pseudotropicalis Castellani & Chalmers (group) Pijper (1923) 108.
on **Man :** isolated from sputum, in two cases of bronchomoniliasis, *Pijper*.

? **Castellania** sp.
Monilia sp., Pijper (1917 a) 130.
on **Man :** isolated from sputum of patient complaining of a chronic cough and emaciation, *Pijper*.

Geotrichum rugosum (Castellani) Dodge

Dodge (1936) 219, 225.

Monilia rugosa Castellani & Chalmers, Pijper (1916) 249, (1917) 249.

on **Man :** isolated from cases of thrush, *Pijper.*

Dodge, l.c., states that it is quite possible that the organism described by Pijper under the name *Monilia rugosa* was *Mycoderma pararugosum* (Castellani & Douglas) Dodge, instead of that species.

Geotrichum spp.

on underground mine timber, Robinson Deep (T.R.L. 471, det. Baarn).

isolated from gelatinous scum in Citrus by-products factory, Mazoe, *Bates 393*, 34010.

Mycotoruloides triadis Langeron & Talice

Candida triadis (?) Langeron, Ferreira (1942).

on **Man :** isolated from pus from an infection of a finger, Moçambique, *Ferreira.*

? **Parendomyces zeylanicus** (Castellani) Dodge

Monilia zeylanica Castellani & Chalmers (group) Pijper (1923) 108.

on **Man :** isolated from sputum in a number of cases of bronchomoniliases, *Pijper.*

SACCHAROMYCETACEAE IMPERFECTAE.

Cryptococcus histolyticus Stoddard & Cutler

Torula histolytica Stoddard & Cutler, Gray (1936) 13 ; Sampson & Farren (1942) 246.

on **Man** ; isolated from lesion in the brain of a European woman, Port Elizabeth and of Eurafrican male, Uitenhage, *Gray ;* from cerebro-spinal fluid of an Indian youth, Durban, *Sampson & Farren ;* another case reported from Southern Rhodesia.

Cryptococcus sp.

Hahn (1933) 369 ; St. John-Brooks (1936) 57.

on **Man** : isolated from spinal fluid in fatal case of blastomycotic meningitis, Pretoria, *Pijper.*

Torulopsis glutinis (Fres. em. Harrison) Dodge

Torula glutinis Pringsh. & Bilewsky, Davel (1931) 18.

causing red colouration on butter and cheese ; no locality indicated.

Torulopsis mucilaginosa (Jörg.) Ciferri & Redaelli

Rhodotorula mucilaginosa (Jörg.) Harrison

isolated from coat of mine native, Randfontein Estates (T.R.L. 424, det. Baarn).

Torulopsis utilis (Henneberg) Lodder

used in the manufacture of " food yeast " products, Germiston.

Genus of doubtful position.

Malassezia furfur (Robin) Baillon

Microsporon furfur Robin, Lister (1932) 33, (1939) 45 ; Pirie (1940) 46.

on **Man** : found in skin scrapings from a rash on body of one patient (1931) ; two cases in 1938, one in 1939 ; quite common in Johannesburg, *H. I. Lurie.*

TRICHOPHYTONEAE.

(GYMNOASCACEAE IMPERFECTAE).

Achorion Schoenleini (Lebert) Remak

Spencer Lister (1930) 48 ; Pirie (1940) 46 ; Cluver (1941) 49.

on **Man** : isolated on numerous occasions from cases of favus, Johannesburg, *H. I. Lurie.*

Ectotrichophyton mentagrophytes (Robin) Castellani & Chalmers

Trichophyton mentagrophytes Gedoelst

on **Man** : isolated from several cases of ringworm on body and face, and from cases of athlete's foot, Johannesburg, *H. I. Lurie.*

Endodermophyton africanum Dodge

Dodge (1936) 490.

Endodermophyton sp., Pijper (1918) 45–47.

on **Man** : isolated from scales on body, a form of " tinea imbricata ", South Africa, *Pijper.*

Epidermophyton floccosum (Harz) Langeron & Milochevitch

on **Man** : isolated from several cases of athlete's foot and from skin lesions, Johannesburg, *H. I. Lurie.*

Epidermophyton interdigitale (Priestley) McCarthy

Shapiro (1941) 877.

on **Man** : causing " athlete's foot ", one of the commonest minor ailments in the army ; observed in Transvaal military hospitals, *Shapiro.*

Epidermophyton purpureum (Bang) Dodge

Trichophyton purpureum Bang

on **Man** : ? isolated from a case of " athlete's foot ", Johannesburg, *H. I. Lurie.*

Epidermophyton rubrum Castellani

Spencer Lister (1930) 49, (1932) 33, (1933) 42, and following years ; Pirie (1940) 46 ; Ferreira (1942) 47.

on **Man** : isolated from several cases of " athlete's foot " and from skin lesions, Johannesburg, *H. I. Lurie ;* from two cases of dermatitis, one showing ring and disk-like patches about the face, neck, body and limbs, the other affecting fingers, including nails ; from several cases of " ringworm " ; from a case of " eczema marginatum " Moçambique, *Ferreira.*

Favotrichophyton violaceum (Sabouraud) Dodge

Trichophyton violaceum Sabouraud

on **Man** : isolated from a case of " ringworm " of scalp, Johannesburg, *H. I. Lurie.*

Megatrichophyton roseum (Bodin) Dodge

Trichophyton roseum Sabouraud

on **Man**: isolated from two cases of onychomycosis and from one case of "athlete's foot," Johannesburg, *H. I. Lurie.*

Microsporum Audouini Gruby

Spencer Lister (1930) 48, (1931) 48, (1932) 32, (1933) 42.

on **Man**: the most common cause of ringworm, Johannesburg, *H. I. Lurie;* found in numerous cases of ringworm recorded in the reports of the South African Institute for Medical Research.

Trichophyton sulfureum Sabouraud

on **Man**; isolated from two cases of rash on groin and from one case of " athlete's foot ", Johannesburg, *H. I. Lurie.*

MYCELIA STERILIA.

Himantia stellifera Johnston

van der Byl (1919) 204, (1921 h) 122; McMartin (1937 b) 267, 353, (1938) 214; Stevenson & Rands (1938) 275.

on **Imperata cylindrica** Beauv., Natal and Zululand, *v. d. Byl*,
Saccharum officinarum Linn., Natal and Zululand, *v. d. Byl;* Natal, *McMartin.*

Rhizoctonia crocorum (Pers.) DC.

Doidge & Bottomley (1931) 35; Hopkins (1938 a) 125, (1939 a) 34.
Helicobasidium purpureum Pat. (Rhizoctonia stage) Hopkins (1938 a) 110, (1939 a) 21, 26.

on **Glycine Max** Merr., roots, Salisbury (Rh. 1277).
Medicago sativa Linn., roots, Avondale (Rh. 2313); Shangani (Rh. 860); N'karini, Weenen, *Glasse*, 2540, *v. d. Byl* (v. d. Byl 584) 31833; Transvaal.
Pinus longifolia Roxb., Salisbury (Rh. 1109) *Hopkins.*

Rhizoctonia lamellifera Small

Hopkins (1933 b) 65, (1938 a) 125, (1939 a) 13, 26, 34, (1943) 182; Laughton (1936) 381.

isolated from
Acacia mollisima Willd., Albert Falls; widespread in Natal and eastern Transvaal, Ledeboer.
Citrus maxima Merr., Umtali, *Hopkins;* Moçambique (Rh. 878, 992).
Citrus sinensis Osbeck, Mazoe, *Hopkins* (Rh. 571, 572, 577, 584, 585, 590, 591, 594, 610, 869, 1060, 1506).
Mangifera indica Linn., Salisbury, *Hopkins* (Rh. 883).
Medicago sativa Linn., Salisbury, *Hopkins* (Rh. 2992).
Pinus echinata Mill., Tokai, *Laughton.*
Pinus muricata Don., Tokai, *Laughton.*
Pinus pinaster Ait., Hout Bay, *Laughton.*
Pinus radiata Don., Tokai, *Laughton;* Salisbury (Rh. 2388).
Pittosporum undulatum Vent., Salisbury (Rh. 936, 1261).

Rhizoctonia Solani Kühn.

Verwoerd (1931 a) 301; Hopkins (1939 a) 125, (1939 a) pp., (1943) 183.
Rhizoctonia sp., Doidge & Bottomley (1931) 16.

on **Antirrhinum majus** Linn., Salisbury (Rh. 2310, 2481, 3394).
Cynodon Dactylon Pers., general in the Transvaal, common on bowling greens, *Bottomley;* Premier Mine, 15673; Salisbury, Bulawayo, Selukwe, *Hopkins.*
Dianthus caryophyllus Linn., destructive, especially in the northern Transvaal, *Bottomley;* Duivelskloof; Benoni, *Naude*, 33899; Johannesburg, *Hughes*, 20685; Brits, 28542.

Gossypium sp., Salisbury (Rh. 960, 977- : Swaziland, *Lockie*, 30099.
Lactuca sativa Linn., Salisbury (Rh. 1381).
Lycopersicum esculentum Mill., Rhodesia, general, *Hopkins*.
Nicotiana Tabacum Linn., Rhodesia general, *Hopkins*.
Solanum tuberosum Linn., very common on tubers throughout the Union ; Bloemfontein, *Verwoerd ;* Rhodesia, *Hopkins ;* Port Elizabeth, *Voisin*, 26334 ; Sterkfontein, Bloemfontein Distr., *Lyon*, 19845 ; Stellenbosch, *Verwoerd* (Stell. 332) ; on stems and roots, Umhlanga Rocks, *Wager*.

Rhizoctonia spp.

Doidge & Bottomley (1931) pp. ; Laughton (1936) 381 ; McMartin (1937) 267, 353, (1938) 215.
sub *Rhizoctonia Solani* Kuhn, Hopkins (1938 a) 125, (1939 a) pp.
on **Beta vulgaris** Linn. (sugar beet) Pretoria, 20310, 20312.
Cynodon Dactylon Pers., causing " dollar spot " on bowling and putting greens, Transvaal, *Bottomley ;* Pretoria, *Home*, 27343.
Matthiola incana R. Br., Southern Rhodesia, *Hopkins*.
Pinus longifolia Roxb., Salisbury (Rh. 460).
Pinus pinaster Ait., Ermelo, *Laughton*.
Pinus radiata Don., Stapleford, *Hopkins* (Rh. 1013).
Saccharum officinarum Linn., Natal, *McMartin*.
on seedlings of indigenous trees, Knysna, *Laughton ;* and on underground parts of many other plants ; see host index.

Sclerotium cepivorum Berk.

du Plessis (1933 b) 7.
on **Allium Cepa** Linn., bulb, Stellenbosch, *du Plessis ;* Caledon, Villiersdorp, Paarl, *Dippenaar ;* Jackson's Drift, *Muller ;* Wolseley, *du Plessis* (Stell. 593) ; Southern Rhodesia, *Hopkins*.

Sclerotium Delphinii Welch

sub *Sclerotium Rolfsii* Sacc., Hopkins (1939 a) 17.
? on **Delphinium cultorum** Voss, Pretoria, *Doidge ;* Marylands (Rh. 37) ; Salisbury (Rh. 2641, 2794).

Sclerotium Rolfsii Sacc.

Moore (1926) 455 ; Doidge & Bottomley (1931) pp. ; McMartin (1938) 215 ; Hopkins (1938 a) 125, (1939 a) pp., (1943) 184 ; Bottomley (1932) 20.
as *Sclerotium* sp., Eyles (1926) 633 ; Verwoerd (1929 b) 6.
on **Arachis hypogaea** Linn., Settlers, *Haywood*, 30500 ; Rutland Siding, *Sellschop*, 30647 ; Naboomspruit, 30699 ; Wesselsnek, 33895 ; Nutfield, *Sellschop ;* Salisbury, *Eyles* (Rh. 1234, 1313, 2359) ; Arcturus (Rh. 423) ; common and destructive.
Dianthus caryophyllus Linn., Transvaal and Natal, destructive ; Sanddrift, Brits, *Terblanche*, 31046 ; Salisbury, *Hopkins*.
Pyrus malus Linn., Town Bush Valley and Edendale, *Doidge ;* Godwan River ; Laingsburg, *Verwoerd ;* M'Soneddi, *Hopkins*.
also found on underground plants of numerous plants, for which see host list.

HOST INDEX.

In the host index, the object has been to record for each host—plant or animal—every fungus known to grow upon it in southern Africa and mentioned in the list of fungi. Substrata of Myxomycetes and Lichens are not included.

Many of the fungi are active parasites, especially the leaf-inhabiting species ; about those found on woody parts of plants less is known. The fructifications of these species develop on standing trees or on fallen trunks and branches in forests and plantations, on fence posts or on timber, particularly that used in mines. Many are saprophytes,others are wound parasites ; little is known about the parasitism of these fungi, especially those found in the indigenous forest, although notes on a few species will be found in literature to which reference has been made. All are therefore included in the host list where the name of the host is known.

The genera of host plants (except fungi) are arranged as nearly as possible in the sequence indicated by Engler and Prantl in Die Natürlichen Pflanzenfamilien, the seed plants as interpreted by Dalla Torre and Harms' Genera Siphonogamarum. This method is adopted by Dr. E. P. Phillips in his Genera of South African Flowering Plants ', and the phanerograms in the National Herbarium, Pretoria are arranged in the same sequence. An exception has been made in the case of the genera *Agave, Dracaena, Phormium* and *Sanseviera*, which are grouped in the family *Agavaceae* proposed by Hutchinson.

Grateful thanks are due to colleagues in the phanerogamic herbarium, who gave much assistance with the indentification of host plants and in applying to host names the International Rules of Botanical Nomenclature. In particular, I am indebted to Miss L. C. Chippindall for a revision of the names of grasses and to Miss I. C. Verdoorn who very kindly undertook the revision of the nomenclature of the rest of the indigenous plants ; considerable help in this task was given by Miss Edwina Phillips and Miss H. van der Linde.

Where fungus species were described originally on plants of which the nomenclature has been altered, such synonyms are listed.

For names of cultivated plants, reference has been made to L. H. Bailey's Manual of Cultivated Plants (1924) and to ' Cultivated Plants of the British Empire and the Anglo-Egyptian Sudan ' by H. C. Sampson (Kew Bull. Add. Series XII).

For a revision of the names of insect hosts I am indebted to Mr. H. K. Munro who is in charge of the Insect collections of the Division of Entomology.

An alphabetical list of genera gives ready reference to the page in the systematic list on which each host genus is to be found.

FUNGI.

ASCOMYCETES.

ERYSIPHACEAE.

Erysiphe cichoracearum DC.
Ciciñnobolus Cesatii de Bary

Sphaerotheca fuliginea (Schlecht.) Salm.
Cicinnobolus Cesatii de Bary

Uncinula necator (Schwein.) Burr.
Cicinnobolus Cesatii de Bary

MELIOLACEAE.

Balladyna velutina (Berk. & Curt.) v. Höhn.
Echidnodes lembosioides Doidge

Balladynastrum glabrum Hansf.
Spegazzinia Meliolae Zimm.

Irene atra Doidge
Helminthosporium dorycarpum Mont. (group)

Irene calostroma (Desm.) v. Höhn.
Calonectria Cephalosporii Hansf.
Dimerium africanum Hansf.
Helminthosporium capense Thuem.

Irene ditricha (Kalchbr. & Cooke) Doidge
Cephalosporium sp.

Irene glabra (Berk. & Curt.) Doide
Dimerium africanum Hansf.

Irene inermis (Kalchbr. & Cooke) Theiss. & Syd.
Dimerium piceum (Berk. & Curt.) Theiss.
Dimerium Langloisii (Ell. & Everh.) Theiss.
Cephalosporiopsis parasitica Hansf.
Helminthosporium capense Thuem.
Arthrosporium parasiticum Wint.

Irene natalensis Doidge
Paranectria minuta Hansf.
Dimerium africanum Hansf.
Cephalosporium sp.
Eriomycopsis Bomplandi Speg.
Helminthosporium capense Thuem.
Helminthosporium dorycarpum Mont. (group)

Irene Nuxiae Syd.

Calonectria Cephalosporii Hansf.
Dimerium africanum Hansf.
Eriomycopsis Bomplandi Speg.
Eriomycopsis minima Hansf.
Titaea Doidgeae Hansf.

Irene Peddieae Doidge

Dimerium africanum Hansf.
Helminthosporium capense Thuem.
Helminthosporium dorycarpum Mont. (group)
Spegazzinia Meliolae Zimm.

Irene Peglerae Doidge

Calonectria Cephalosporii Hansf.
Dimerium piceum (Berk. & Curt.) Theiss.
Dimerium pulveraceum (Speg.) Theiss.
Phaeophragmeriella meliolicola (Syd.) Hansf.
Cephalosporium sp.
Helminthosporium capense Thuem.
Arthrosporium parasiticum Wint.

Irene Podocarpi Doidge

Calonectria capensis Doidge
Calonectria Cephalosporii Hansf.
Eriomycopsis minima Hansf.
Helminthosporium dorycarpum Mont. (group).

Irene Rinoreae Doidge

Dimerina parasitica (Sacc.) Hansf.
Helminthosporium dorycarpum Mont. (group)

Irene scabra Doidge

Calonectria Ugandae Hansf.
? Phaeophragmeriella Meliolae (Stev.) Hansf.
Trichothyrium dubiosum (Bomm. & Rouss.) Theiss.
Eriomycopsis Bomplandi Speg.
Eriomycopsis Ugandae Hansf.
Helminthosporium dorycarpum Mont. (group)
Spegazzinia Meliolae Zimm.

Irene speciosa Doidge

Helminthosporium capense Thuem.

Irene Strophanthi Doidge

Eriomycopsis minima Hansf.
Spegazzinia Meliolae Zimm.

Meliola Behniae Syd.

Trichothyrium dubiosum (Bomm. & Rouss.) Theiss.
Spegazzinia Meliolae Zimm.

Meliola bifida Cooke.

Helminthosporium dorycarpum Mont. (group)

Meliola Bosciae Doidge

Dimerium africanum Hansf.

Meliola buxicola Doidge

Calonectria Cephalosporii Hansf.

Meliola capensis (Kalchbr. & Cooke) Theiss.

Dimerium africanum Hansf.
Eriomycopsis minima Hansf.

Meliola capnodioides Thuem.

Calonectria Cephalosporii Hansf.
Dimerium piceum (Berk. & Curt.) Theiss.

Meliola Carissae Doidge

Paranectria minuta Hansf.
Chloridium Meliolae Hansf.
Helminthosporium capense Thuem.
Spegazzinia Meliolae Zimm.

Meliola claviculata Doidge

Spegazzinia Meliolae Zimm.

Meliola comata Doidge

Dimerium africanum Hansf.
Dimerium subferrugineum Syd.
Philonectria ugandense Hansf.
Trichothyrium dubiosum (Bomm. & Rouss.) Theiss.
Eriomycopsis minima Hansf.
Helminthosporium dorycarpum Mont. (group)

Meliola Cryptocaryae Doidge

Dimerium piceum (Berk. & Curt.) Theiss.
Eriomycopsis Bomplandi Speg.

Meliola Excoecariae Doidge

Nectria meliolopsicola P. Henn.
Helminthosporium dorycarpum Mont. (group)

Meliola furcillata Doidge

Helminthosporium dorycarpum Mont. (group)
Spegazzinia Meliolae Zimm.

Meliola ganglifera Kalchbr.

Dimerium piceum (Berk. & Curt.) Theiss.
Eriomycopsis Bomplandi Speg.
Eriomycopsis minima Hansf.
Helminthosporium capense Thuem.

Meliola Goniomae Doidge

Nectria perpusilla Sacc.
Dimerium africanum Hansf.
Dimerium subferrugineum Syd.
Eriomycopsis Bomplandi Speg.
Spegazzinia Meliolae Zimm.

Meliola Hippocrateae Doidge

Calanectria Cephalosporii Hansf.
Dimerium piceum (Berk. & Curt.) Theiss.

Meliola littoralis Syd.

Calonectria Cephalosporii Hansf.
Dimerium piceum (Berk. & Curt.) Theiss.
Echidnodes lembosoides Doidge
Helminthosporium capense Thuem.
Arthrosporium parasiticum Wint.

Meliola Loxostylidis Doidge

Coleroa Woodii Hansf.
Helminthosporium capense Thuem.

Meliola Merrillii Syd.

Dimerium leonense Hansf.

Meliola Ochnae Doidge

Spegazzinia Meliolae Zimm.

Meliola oleicola Doidge

Dimerium africanum Hansf.
Dimerium piceum (Berk. & Curt.) Theiss.
Eriomycopsis Bomplandi Speg.
Helminthosporium capense Thuem.
Helminthosporium dorycarpum Mont. (group)
Spegazzinia Meliolae Zimm.

Meliola Osyridis Doidge

Calonectria Cephalosporii Hansf.
Paranectria minuta Hansf.
Dimerium africanum Hansf.
Dimerium leonense Hansf.
Dimerium piceum (Berk. & Curt.) Theiss.
Helminthosporium capense Thuem.

Meliola palmicola Wint.

? Helminthosporium Palmetto Gerard.

Meliola peltata Doidge

Dimerium baccharidicolum (P. Henn.) Sacc.
Dimerium piceum (Berk. & Curt.) Theiss.

Meliola petiolaris Doidge

Helminthosporium capense Thuem.

Meliola Popowiae Doidge

Dimerium leptosporum Speg.
Philonectria ugandense Hansf.

Meliola rhoina Doidge

Dimerium africanum Hansf.
Dimerium piceum (Berk. & Curt.) Theiss.
Calloriopsis gelatinosa (Ell. & Mart.) Syd.
Cephalosporium sp.
Eriomycopsis minima Hansf.
Helminthosporium capense Thuem.

Meliola Toddaliae Doidge

Dimerium africanum Hansf.
Eriomycopsis Meliólae Hansf.
Helminthosporium capense Thuem.
Spegazzinia Meliolae Hansf.

Meliola torta Doidge

Dimerium piceum (Berk. & Curt.) Theiss.
? Phaeophragmeriella Meliolae (Stev.) Hansf.
Cephalosporium sp.
Eriomycopsis Bomplandi Speg.
Eriomycopsis flagellata Hansf.
Helminthosporium dorycarpum Mont. (group)
Spegazzinia Meliolae Zimm.
Arthobotryum melanoplaca Berk. &Crut.

Meliola transvaalensis Doidge

Spegazzinia Meliolae Zimm.

Meliola Woodiana Sacc.

Dimerina parasitica (Sacc.) Hansf.
Dimerium africanum Hansf.
Dimerium piceum (Berk. & Curt.) Speg.
Malacaria meliolicola Syd.
Cephalosporium sp.
Eriomycopsis Bomplandi Speg.
Helminthosporium capense Thuem.
Arthrosporium parasiticum Wint.
Spegazzinia Meliola Zimm.

Meliola sp. nr. **M. capnodioides** Thuem.

Calonectria Cephalosporii Hansf.
Dimerium minutum (Pat.) Sacc.
Dimerium piceum (Berk. & Curt.) Theiss.
Arthrosporium parasiticum Wint.

Meliola sp. (on Cunonia)

Helminthosporium capense Thuem.

Schiffnerula compositarum (Theiss.) Petrak

Dimerium baccharidicolum (P. Henn.) Sacc.

Schiffnerula Gymnosporiae Hans.f

Chaetodimerina Schiffnerulae Hansf.
Trichothyrium elegans Doidge

Schiffnerula radians (Syd.) Hansf.

Trichothyrium elegans Doidge.

HYPOCREACEAE.

Claviceps Digitariae Hansf.

Fusarium heterosporum Nees var. congoense Wollenw.

Claviceps Paspali Stev. & Hall

Fusarium avenaceum (Fr.) Sacc. f.l. Wollenw. & Reinking

Claviceps spp.

Fusarium heterosporum Nees var. congoense Wollenw.

Epichloe cinerea Berk. & Br.

Calonectria rigidiuscula (Berk. & Br.) Sacc.
Fusurium ciliatum Link
Fusurium decemcellulare Brick

SPHAERIACEAE.

Englerula Macarangae P. Henn.

Cicinnobella sp.

Parodiella perisporioides (Berk. & Curt.) Speg.

Cryptogene Parodiellae Syd.
Cryptogenella Parodiellae Syd.

PHYLLACHORACEAE.

Endodothella Deightonii Syd.

Lasmeniella globulifera (Rabenh.) Petrak & Syd.

Phaeochorella Parinarii (P. Henn.) Theiss. & Syd.
Fusarium expansum Schlecht.

Phyllachora Cynodontis (Sacc.) Niessl.
Cryptodidymosphaeria clandestina Syd.

Phyllachora Doidgeae Syd.
Cryptodidymosphaeria clandestina Syd.
Pleospora Doidgeae Petrak
Coniothyrium occultum Syd.
Stagonospora cryptogea Syd.

Phyllachora Evansii Syd.
Cryptodidymosphaeria clandestina Syd.

Phyllachora Halsei Doidge
Lasmeniella globulifera (Rabenh.) Petrak & Syd.

Phyllachora heterospora P. Henn.
Cryptodidymosphaeria clandestina Syd.
Coniothyrium occultum Syd.

Phyllachora Pterocarpi Syd.
Lasmeniella globulifera (Rabenh.) Petrsk & Syd.

Phyllachora Tricholaenae P. Henn.
Cryptodidymosphaeria clandestina Syd.

Phyllachora spp.
Cryptodidymosphaeria clandestina Syd.

XYLARIACEAE.

Hypoxylon rubiginosum Pers. ex Fr.
Tympanopsis euomphala (Berk. & Curt.) Starb.

Hypoxylon sp.
Nectria episphaeria Tode ex Fr.

MICROTHYRIACEAE.

Asterinella Pterocelastri Doidge
Trichothyrium elegans Doidge

ASTERINACEAE.

Asterina africana (v. d. Byl) Doidge var. **Kiggelariae** Doidge
Phaeodimeriella plumbea Doidge

Asterina Bottomleyae Doidge
Phaeodimeriella Asterinarum (Speg.) Theiss.

Asterina gerbericola Doidge
Dimerium africanum Hansf.
Phaeodimeriella plumbea Doidge
Mycolangloisia nitida (Doidge) Hansf.

Asterina Grewiae Cooke
Phaeodimeriella Grewiae (Theiss.) Hansf.

Asterina Hendersoni Doidge
Calonectria Ugandae Hansf.
Dimerium leptosporum Speg.
Phaeodimeriella Asterinarum (Speg.) Theiss.
Eriomycopsis Bomplandi Speg.

Asterina natalitia Doidge
Eriomycopsis Bomplandi Speg.
Spegazzinia Meliolae Zimm.

Asterina peraffinis Speg.
Phaeodimeriella parvulum (Cooke) Hansf.

Asterina Scolopiae Doidge
Phaeodimeriella Asterinarum (Speg.) Theiss.
Eriomycopsis Asterinae Hansf.

Asterina Streptocarpi Doidge
Dimerium pulveraceum (Speg.) Theiss.
Mycolangloisia nitida (Doidge) Hansf.

Asterina Syzygii Doidge
Phaeophragmeriella transvaalensis (Doidge) Hansf.
Periconia Doidgeae Hansf.

Asterina tertia Rac. var. **africana** Doidge
Dimerium piceum (Berk. & Curt.) Theiss.
Phaeodimeriella plumbea Doidge
Eriomycopsis Asterinae Hansf.

BASIDIOMYCETES.

USTILAGINACEAE.

Sphacelotheca Sorghi (Link) Clint.
Fusarium culmorum (W.G.Sm.) Sacc.

Ustilago bromivora (Tul.) Fischer
Fusarium heterosporum Nees var. congoense Wollenwr.

Ustilaginaceae indet.

Fusarium heterosporum Neès var. congoense Wollenwr.

PUCCINIACEAE.

Puccinia Digitariae Pole Evans

Darluca filum (Biv.) Cast.

Puccinia Eragrostidis-superbae Doidge

Eudarluca australis Speg.
Darluca filum (Biv.) Cast.

Puccinia erythraeënsis Pazschke

Darluca filum (Biv.) Cast.

Puccinia graminis Pers.

Darluca filum (Biv.) Cast.

Puccinia heterospora Berk. & Curt.

Tuberculina malvacearum Speg.

Puccinia Pruni-spinosae Pers.

Darluca filum (Biv.) Cast.

Puccinia ranulipes Doidge

Fusarium avenaceum (Fr.) Sacc.

Puccinia spp. indet.

Darluca filum (Biv.) Cast.

Pucciniosira Dissotidis Wakef.

Darluca filum (Biv.) Cast.

Ravenelia MacOwaniana Paschke (aecidium)

Trichothecium roseum Link

Uromyces appendiculatus (Pers.) Link

Darluca filum (Biv.) Cast.

Uromyces caryophyllinus (Schrank.) Wint.

Darluca filum (Biv.) Cast.

Uromyces leptodermus Syd.

Darluca filum (Biv.) Bern.

Uromyces Ipomoeae (Thuem.) Berk.

Darluca filum (Biv.) Cast.

Aecidium dubiosum Syd.
Tuberculina persicina (Ditm.) Sacc.

Aecidium Oxalidis Thuem.
Darluca filum (Biv.) Cast.

Aecidium Vignae Cooke
Darluca filum (Biv.) Cast.

Uredo spp. indet.
Darluca filum (Biv.) Cast.

MELAMPSORACEAE.

Melampsora Ricini Pass.
Darluca filum (Biv.) Cast.

POLYPORACEAE.

Boletus subflammeus Berk.
Cladosporium herbarum Link

Boletus sp. indet.
Hypomyces chrysospermus Tul.

Fomes sp. indet.
Asterostroma cervicolor Mass.

Polyporus sp. indet,
Trametes Sycomori P. Henn.

Polyporaceae indet.
? Mycogone aurantiaca da Cam.

AGARICACEAE.

Amanita sp.
Cladosporium macrocarpum Preuss.

Pholiota sp.
Verticillium sp.

Psaliota sp.
Verticillium sp.

Russula cyanoxantha (Schaeff. ex Scer.) Fr.
Mycogone sp.

Agaricaceae indet.

? Mycogone aurantiaca da Cam.
Cladosporium macrocarpum Preuss.

LYCOPERDACEAE.

Geasteropsis Conrathi Hollós
Phōma Geasteropsidis Hollós

SCLERODERMATACEAE.

Scleroderma Cepa Pers.
Trichothecium roseum Link

FUNGI IMPERFECTAE.

MONILIACEAE.

Oidium sp.
Cicinnobolus Cesatii de Bary

STILBACEAE.

Isaria Psychidae Pole Evans
Melanospora parasitica Tul.

LICHENES.

STICTACEAE.

Lobaria pulmonaria Hoffm. f. **pleurocarpa** Cromb.
Celidium stictarum (deNot.) Tul.

Sticta aurata (Sm. & Sow.) Ach.
Abrothallus Parmeliarum (Sommerf.) Nyl.

LECIDEACEAE.

Lecidea callaina Stizenb.
Tryblidaria capensis (Stizenb.) Vouaux

Lecidea sp. indet.
Pharcidia Psorae (Anzi) Wint.

PERTUSARIACEAE.

Pertusaria sp. indet.
Mycobilimbia quaternella (Nyl.) Vouaux forma

PARMELIACEAE.

Parmelia hottentotica Ach.
Eurotium herbariorum (Wigg.) Link

Parmelia perforata S. F. Gray
Nesolechia perforans (Stizenb.) Vouaux

Parmelia rudicta Ach.
Homostegia Piggotii (Berk. & Br.) Karst.

Parmelia subcaperatula Nyl.
Mycobilimbia acervata (Stizenb.) Vouaux

BRYOPHYTA.

HEPATICAE.

Riccia sp.
Olpidiopsis Ricciae du Pless.

PTERIDOPHYTA.

FILICALES.

HYMENOPHYLLACEAE.

Trichomanes pyxidiferum Linn.
Micropeltis Trichomanis P. Henn.

CYATHEACEAE.

Cyathea Dregei O. Ktze.
Phyllachora Hieronymi P. Henn.

POLYPODIACEAE.

Aspidium capense Willd.
=Polystichum adiantiforme (Forsk.) J. Sm.

Asplenium nidus Linn.
Phyllosticta Asplenii Jaap

Dryopteris inaequalis (Schl.) O. Kotze.
Echidnodes africana Doidge

Dryopteris spp. indet.
Macrophoma Dryopteris Verw. & du Pless.
Phyllosticta Dryopteris Verw. & du Pless.
Cryptostictis Dryopteris Verw. & du Pless.

Hypolepis sparsisora (Schrad.) Kuhn.
Echidnodes Hypolepidis Doidge

Oleandra articulata (Swartz) Presl.
Entyloma Oleandrae P. Henn.

Pellaea hastata Link.
=Pellaea viridis (Forsk.) Prantl

Pellaea viridis (Fosrk.) Prantl.
Milesina nervisequa Syd.

Polypodium lycopodioides Linn.
Milesina Dieteliana (Syd.) P. Magn.

Polystichum adiantiforme (Forsk.) J. Sm.
? Milesina nervisequa Syd.

Pteridium aquilinum (Linn.) Kuhn
Pythium aphanidermatum (Eds.) Fitz.
Uredinopsis macrosperma (Cooke) P. Magn.
Fusarium Scirpi Lamb. & Fautr.

Pteris aquilina Linn.
=Pteridium aquilinum (Linn.) Kuhn.

MARATTIALES.

MARATTIACEAE.

Marattia fraxinea Sm.
Metasphaeria caffra (Thuem.) Petrak

SPERMATOPHYTA.

GYMNOSPERMAE.

CYCADACEAE.

Encephalartos villosus (Gaertn.) Lem.
Pestalotia Encephalartos Laughton

Encephalartos sp. indet.
Leptothyrium Evansii Syd.

Stangeria eriopus Nash
Dothiopsis Stangeriae Verw. & du Pless.
Pestalotia Encephalartos Laughton

Cycadaceae indet.
Omphalia paurophylla (Berk.) Sacc.

Podocarpus elongatus L'Hérit.

Corynelia uberata Fr. ex Ach.
Tripospora tripos (Cooke) Lindau
Fomes connatus (Fr.) Gillet
Gloeoporus dichrous (Fr.) Bres.

Podocarpus falcatus R. Br.

Irene Podocarpi Doidge
Meliola peltata Doidge
Corynelia uberata Fr. ex Acharius
Tripospora tripos (Cooke) Lindau

Podocarpus gracilior Pilg.

Irene Podocarpi Doidge
Corynelia uberata Fr. ex Acharius

Podocarpus Henkelii Stapf.

Irene Podocarpi Doidge
Meliola peltata Doidge
Corynelia uberata Fr. ex Acharius

Podocarpus latifolius R. Br.

Irene Podocarpi Doidge
Meliola peltata Doidge
Corynelia uberata Fr. ex Acharius
Tripospora tripos (Cooke) Lindau
Xylaria tabacina (Kickx) Berk.
Fomes geotropus Cooke
Fomes glaucoporus Lloyd
Ganoderma oroflavum (Lloyd) Humphrey & Leus.
Gloeoporus conchoides Mont.
Polyporus immaculatus Lloyd
Trametes glabrescens (Berk.) Mont.
Lentinus Sajor-Caju Fr.
Septoria Podocarpi Thuem.
Pestalotia Podocarpi Laughton

Podocarpus milanjianus Rendl.

Corynelia uberata Fr. ex Acharius

Podocarpus Thunbergii Hk.

=Podocarpus latifolius R. Br.

Podocarpus spp. indet.

Aleurodiscus disciformis (DC. ex Fr.) Pat.
Fomes connatus (Fr.) Gillet
Fomes geotropus Cooke
Ganoderma applanatum (Pers.) Pat.
Lenzites betulina (Linn. ex Fr.) Fr.
Trametes albotexta Lloyd
Dothiorella congesta (Lév.) Sacc.

PINACEAE.

Araucaria braziliana A. Rich.

Armillaria mellea (Vahl. ex Fr.) uél.
Botryodiplodia Theobromae Pat.
Diplodia pinea (Desm.) Kichx.

Araucaria Cunninghamii Sweet

Pestalotia Micheneri Guba

Cedrus Deodara Loud.

Thelephora intybacea Pers. ex Fr.
Thelephora terrestria Ehrhenb. ex Fr.
Pestalotia funerea Desm.

Chamaecyparis Lawsoniana Parl.

Pestalotia funerea Desm.

Cryptomeria japonica D. Don

Phomopsis juniperovora Hahn

Cupressus arizonica Greene

Phomopsis juniperovora Hahn
Botryodiplodia Theobromae Pat.
Pestalotia funerea Desm.

Cupressus lusitanica Mill.

Armillaria mellea (Vahl ex Fr.) Quél.
Pestalotia funerea Desm.
Fusarium oxyporum Schlecht. var. aurantiacum (Link.) Wollenwr.

Cupressus macrocarpa Hartw.

Polyporus gilvus (Schw.) Fr.
Phomopsis juniperovora Hahn
Botryodiplodia Theobromae Pat.

Cupressus torulosa Don

Phomopsis juniperovora Hahn
Pestalotia funerea Desm.

Cupressus sp. indet.

Pythium ultimum Trow
Armillaria mellea (Vahl ex Fr.) Quél.

Juniperus procera Hochst.

Armillaria mellea (Vahl ex Fr.) Quél.
Phomopsis juniperovora Hahn

Juniperus virginiana Linn.

Phomopsis juniperovora Hahn
Pestalotia funerea Desm.

Juniperus sp., indet.

Pestalotia funerea Desm.

Pinus canariensis C. Smith

Diplodia pinea (Desm.) Kickx

Pinus caribaea Morelet

Thelephora terrestris Ehrhenb. ex Fr.
Armillaria mellea (Vahl ex Fr.) Quél.
Diplodia pinea Kickx
Pestalotia macrochaeta (Speg.) Guba

Pinus Coulteri D. Don

Pythium ultimum Trow

Pinus echinata Mill.

Rhizoctonia lamellifera Small

Pinus halepensis Mill.

Phoma pinastrella Sacc.
Diplodia pinea (Desm.) Kickx
Pestalotia funerea Desm.
Pestalotia peregrina Ell. & Mart.

Pinus insignis Dougl.

= Pinus radiata Don

Pinus leiophylla Schlecht. & Cahm.

Diplodia pinea (Desm.) Kickx.

Pinus longifolia Roxb.

Helicobasidium compactum Boedyn
Armillaria mellea (Vahl ex Fr.) Quél.
Diplodia pinea (Desm.) Kickx
Pestalotia peregrina Ell. & Mart.
Fusarium oxysporum Schlecht. var. aurantiacum (Link) Wollenwr.
Rhizoctonia crocorum (Pers.) DC.
Rhizoctonia sp.

Pinus luchuensis Mayr.

Helicobasidium compactum Boedyn

Pinus Montezumae Lamb.

Diplodia pinea (Desm.) Kickx

Pinus muricata Don

Diplodia pinea (Desm.) Kickx
Rhizoctonia lamellifera Small

Pinus oocarpa Schiede

Diplodia pinea (Desm.) Kickx

Pinus oocarpa Schiede var. **microphylla**

Diplodia pinea (Desm.) Kickx

Pinus palustris Mill.

Armillaria mellea (Vahl ex Fr.) Quél.
Diplodia pinea (Desm.) Kickx
Fusarium oxysporum Schlecht. var. aurantiacum (Link) Wollenwr.

Pinus patula Schiede

Diplodia pinea (Desm.) Kickx
Pestalotia macrochaeta (Speg.) Guba

Pinus pinaster Ait.

Stereum hirsutum (Willd. ex Fr.) Fr.
Armillaria mellea (Vahl. ex Cr.) Quél.
Schizophyllum commune Fr.
Phoma pinastrella Sacc.
Diplodia pinea (Desm.) Kickx
Pestalotia macrochaeta (Speg.) Guba
Rhizoctonia la mellifera Small
Rhizoctonia sp.

Pinus pinaster Ait var. **Hamiltonii** Parl.

Diplodia pinea (Desm.) Kickx

Pinus pseudostrobus Lindl.

Diplodia pinea (Desm.) Kickx

Pinus pseudostrobus Lindl. var. **tenuifolia**

Diplodia pinea (Desm.) Kickx

Pinus radiata Don.

Pythium ultimum Trow
? Lophodermium Pinastri (Schrad. ex Fr.) Chev.
Thelephora terrestris Ehrhenb. ex Fr.
Lenzites Palisoti Fr.
Phoma pinastrella Sacc.
Diplodia pinea (Desm.) Kickx
Pestalotia macrochaeta (Speg.) Cuba
Rhizoctonia lamellifera Small
Rhizoctonia sp.

Pinus Sabiniana Dougl.

Diplodia pinea (Desm.) Kickx

Pinus taeda Linn.

Thelephora terrestris Ehrhenb. ex. Fr.
Fusarium oxysporum Schlecht. var. aurantiacum (Link) Wollenwr.

Pinus Thunbergii Parl.

Naemacyclus niveus (Pers. ex Fr.) Sacc.
Diplodia pinea (Desm.) Kickx

Pinus spp. indet.

Pythium ultimum Trow
Naemacyclus niveus (Pers. ex Fr.) Sacc.
Exidia purpurea cinerea MacOwan & Kalchbr.
Dacryomyces tortus Dugy
Coniophora atrocinerea Karst.
Coniophora puteana (Schum. ex Fr.) Karst.
Coniophorella olivacea (Fr.) Karst.
Peniophora gigantea (Fr.) Mass.
Stereum hirsutum (Willd. ex Fr.) Fr.
Thelephora penicillata Lloyd
Thelephora terrestris Ehrhenb. ex Fr.
Lenzites betulina (Linn. ex Fr.) Fr.
Merulius lacrymans (Wulf ex Fr.) Fr.
Polyporus immaculatus Lloyd
Polyporus rusticus Lloyd
Polystictus sanguineus (Linn. ex Fr.) Fr.
Trametes proteus (Berk.) Fr.
Trametes trabea (Pers. ex Fr.) Bres.
Flammula hybrida (Fr.) Gillet
Flammula sapinea (Fr.) uél.
? Hypholoma capnoides (Fr.) uél.
Lentinus lepideus Fr.
Lentinus stuppeus Klotzsch
Panus stipticus (Bull. ex Fr.) Fr.
Schizophyllum commune Fr.
Diplodia pinea (Desm.) Kickx
Pestalotia funerea Desm.
Pestalotia macrochaeta (Speg.) Guba
Pestalotia peregrina Ell. & Mart.
Acremonium verticillatum Link
Fusarium angustum Sherb.
Fusarium oxysporum Schlecht. var. aurantiacum (Link) Wollenwr.
Fusarium Scirpi Lamb. & Fautr.

Widdringtonia sp. indet.

Pestalotia funerea Desm.
Fumago vagans Pers.

Welwitschia Bainesii (Hook. f.) Carr.

Dothidella Welwitschii A.L.Sm.
Sphaerulina Worsdelii Mass.
Phoma Welwitschiae Mass.
Zythia Welwitschiae P. Henn.
Aspergillus Welwitschiae (Bress.) P. Henn.

Welwitschia mirabilis Hook. f.
=Welwitschia Bainesii (Hook. f.) Carr.

ANGIOSPERMAE.

MONOCOTYLEDONAE.

PANDANACEAE.

Pandanus sp. indet.

Schizophyllum commune Fr.

GRAMINEAE.

Maydeae.

Euchlaena mexicana Schrad.

Puccinia Maydis Bereng.

Zea Mays Linn.

Physoderma Maydis Miyabe
Rhizopus nigricans Ehrhenb.
Sclerospora indica Butler
Gibberella Fujikuroi (Saw.) Wollenwr.
Gibberella Fujikuroi (Saw.) Wollenwr. var. subglutinans Edwards
Gibberella Saubinetii (Mont.) Sacc.
Sorosporium Reilianum (Kuhn) McAlp.
Ustilago Zeae (Beckm.) Unger
Puccinia Maydis Bereng.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Macrophomina Phaseoli Maubl.
Diplodia Zeae (Schw. Lév.
Colletotrichum graminicolum (West.) Wilson
Aspergillus niger van Tiegh.
Monilia sitophila (Mont.) Sacc.
Penicillium oxalicum Currie & Thom
Basisporium gallarum Molliard
Cladosporium herbarum Link
Cladosporium tenuissimum Peck
Cladosporium Zeae Peck
Helminthosporium turcicum Pass.
Macrosporium Maydis Cooke & Ellis
Fusarium graminacearum Schwabe
Fusarium moniliforme Sheld.
Fusarium moniliforme Sheld. var. subglutinans Wollenw.
Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Fautr. var. acuminatum (Ell. & Everh.) Wollenw.
Fusarium Solani Mart.

Andropogoneae.

Amphilophis glabra A. Camus

=Bothriochloa glabra A. Camus

Amphilophis insculpta Stapf.

=Botriochloa insculpta A. Camus

Andropogon amplectens Nees

? Balansia Trachypogonis Boidge
Uromyces Clignyi Pat. & Har.

Andropogon arundinaceus Willd.

=Sorghum arundinaceum Stapf

Andropogon eucomus Nees

Puccinia Eucomi Doidge

Andropogon finitimus Wochst.

=Hyparrhenia finitima Stapf

Andropogon gayanus Kunth

Sphaecelotheca Andropogonis (Opiz) Bubak
Puccinia versicolor Diet. & Holw.

Andropogon gayanus Kunth var. **squamulatus** Stapf

Puccinia versicolor Diet. & Holw.

Andropogon huillensis Rendl.

Puccinia Eucomi Doidge

Andropogon macrolepis Hack pr.p.

=Hyparrhenia dissoluta (Nees) Hubb.

Andropogon papillosus Hochst.

Dicathium papillosum Stapf.

Andropogon Ruprechtii Hack.

=Hyparrhenia dissoluta (Nees) Hubb.

Andropogon Schoenanthus Linn.

=Cymbopogon Schoenanthus Spreng.

Andropogon shirensis Hochst.

Puccinia erythraeënsis Pazschke

Andropogon sorghum Brot. var. *caffrorum*

=Sorghum caffrorum Beauv.

Andropogon sp. indet.

Puccinia erythraeënsis Pazschke

Anthistiria imberbis Retz

=Themeda triandra Forsk.

Bothriochloa glabra A. Camus

Sphacelotheca Andropogonis (Opiz) Bubak
Sphacelotheca Doidgeae Zundel
Puccinia Amphilophidis Doidge
Fusarium heterosporum Nees var. congoense Wollenw.
Cerebella sp.

Bothriochloa insculpta A. Camus

Sphacelotheca Amphilophidis Syd.
Puccinia Amphilophidis Doidge

Bothriochloa sp. indet.

Sphacelotheca Doidgeae Zundel

Chrysopogon montanus Trin. var. **tremulus** Stapf.

Phyllachora Chrysopogonis Syd.

Cymbopogon afronardus Stapf

Puccinia erythraeënsis Pazschke
Cercospora Sorghi Ell. & Everh.

Cymbopogon elegans Spreng.

Sorosporium Holstii P. Henn.
Cerebella sp.

Cymbopogon excavatus Stapf.

Phyllachora Doidgeae Syd.
Sphacelotheca natalensis Zundel
Puccinia erthraeënsis Pazschke
Cercospora Sorghi Ell. & Everh.

Cymbopogon Humbolbtii Spreng.

=Hyparrhenia bracteata Stapf

Cymbopogon marginatus (Steud.) Stapf

Phyllachora Doidgeae Syd.
Puccinia erythraeënsis Pazschke
Beniowskia sphaeriodea (Kalchbr. & Cooke) Mason
Cerebella sp.

Cymbopogon plurinodis Stapf

Sorosporium pretoriaënse Zundel
Sphacelotheca concentrica Zundel
Sphacelotheca Moggii Zundel
Puccinia erythraeënsis Pazschke

Cymbopogon Schoenanthus Spreng.

Sphacelotheca Andropogonis (Opiz) Bubak

Cymbopogon spp. indet.

Sorosporium Willdemanianum P. Henn.
Sphacelotheca Zilligii Zundel
Cerebella sp.

Dicanthium papillosum Stapf

Sphacelotheca Dinteri (Syd.) Zundel

Elyonurus argenteus Nees

Phyllachora Elyonuri Doidge
Ustilago Elinonuri P. Henn. & Evans

Elyonurus glaber Phill. var. **villosus** Phill.

Phyllachora Elyonuri Doidge

Erianthus giganteus (Walt.) Muhl.

Ustilago scitaminea Syd.

Erianthus saccharoides Michx.

=Erianthus giganteus (Walt.) Muhl.

Hemarthria altissima (Poir.) Stapf. & Hubb.

Sphacelotheca densa (McAlp.) Ciferri
Puccinia Rottboelliae Syd.
Uredo Rottboelliae Diet.

Heteropogon contortus R. & S.

Sphacelotheca monilifera (Ell. & Everh.) Clint.
Puccinia versicolor Diet. & Holw.
Septoriella striiformis (Syd.) Sacc.
Cerebella sp.

Heteropogon melanocarpus Benth.

Pucinia versicolor Diet. & Holw.

Hyparrhenia auctus (Stapf) Stent

Sorosporium proliferatum Zundel
Puccinia erythraënsis Pazschke

Hyparrhenia bracteata Stapf

? Ustilago Rabenhorstiana Kühn

Hyparrhenia Buchananii Stapf

Sphacelotheca tenuis (Syd.) Zundel
Pucinia erythraeënsis Pazschke

Hyparrhenia cymbaria Stapf

Phyllachora Doidgeae Syd.

Puccinia erythraeënsis Pazschke
Puccinia versicolor Diet. & Holw.

Hyparrhenia dissoluta (Nees) Hubb.

Sorosporium Clintonii Zundel
Sorosporium Everhartii Ell. & Call.
Sphacelotheca Andropogonis (Opiz) Bubak
Sphacelotheca Evansii Zundel
Sphacelotheca Ruprechtii Syd.
Puccinia erythraeënsis Pazschke

Hyparrhenia filipendula Stapf

Ustilago Hyparrheniae Hopkins
Puccinia erythraeënsis Pazschke
Cerebella sp.

Hyparrhenia filipendula Stapf var. **pilosa** Stapf

Puccinia erythraeënsis Pazschke

Hyparrhenia finitima Stapf

Ustilago Andropogonis-finitimi Maubl.

Hyparrhenia glauca Stent

Puccinia erythraeënsis Pazschke
Cerebella sp.

Hyparrhenia hirta Stapf

Phyllachora Doidgeae Syd.
Ustilago puellaris Syd.
Puccinia erythraeënsis Pazschke
Fusarium heterosporum Nees var. congoense Wollenw.

Hyparrhenia Newtonii Stapf

? Puccinia Rottboelliae Syd.

Hyparrhenia Ruprechtii Fourn.

=Hyparrhenia dissoluta (Nees) Hubb.

Hyparrhenia Tamba Anderss.

Sorosporium austro-africanum Zundel
Sorosporium Clintonii Zundel
Sorosporium Tembuti P. Henn. & Evans
Sorosporium Zundelianum Ciferri
Puccinia erythraeënsis Pazschke
Cerebella sp.

Hyparrhenia spp. indet.

Sorosporium Healdii Zundel
Sphacelotheca tenuis (Syd.) Zundel

Puccinia erythraeënsis Pazschke
Pucciiia versicolor Diet. & Holw.
Fusarium heterosporum Nees var. congoense Wollenw.
Cerebella sp.

Imperata arundinacea Cyr.
=Impērata cylindrica Beauv.

Imperata cylindrica Beayv.
Ustilago scitaminea Syd.
Puccinia rufipes Diet.
Himantia stellifera Johnston

Imperata cylindrica Beauv. var. **Koenigii** Dur. & Sch.
Puccinia rufipes Diet.

Imperata cylindrica Beauv. var. **Thunbergii** Hack.
Ustilago scitaminea Syd.
Puccinia Imperatae Doidge
Puccinia rufipes Diet.

Ischaemum arcuatum Stapf
Phyllachora Bottomleyae Doidge

Miscanthidium capense Stapf
Phyllachora Miscanthidii Doidge
? Ustilago gigaspora Mass.
Puccinia Miscanthidii Doidge

Miscanthidium junceum Stapf
Puccinia Miscanthidii Doidge

Miscanthidium Sorghum (Nees) Stapf
Phyllachora Miscanthidii Doidge
Puccinia Miscanthidii Doidge

Miscanthidium sp.
Cerebella sp.

Monocymbium ceresiiforme Stapf
Phyllachora Doidgeae Syd.
Puccinia versicolor Diet. & Holw.

Rottboellia compressa Linn. f.
Puccinia Rottboelliae Syd.

Rottboellia exaltata Linn. f.
Sphacelotheca flagellata (Syd.) Zundel

Puccinia Rottboelliae Syd.
Uredo Rottboelliae Diet.

Rottboellia fasciculata Lam.

=Hemarthria altissima (Poir). Stapf & Hubb.

Saccharum officinarum Linn.

Pythium sp.
Gibberella fujikuroi Saw. var. subglutinans Edwards
Leptosphaeria Sacchari van Breda
Ustilago scitaminea Syd.
Puccinia Kuhnii Butl.
Odontia saccharicola Burt.
Marasmius sp.
Schizophyllum commune Fr.
Cytospora Sacchari Butl.
Colletotrichum falcatum Went.
Melanconium Sacchari Mass.
Aspergillus sp.
Cephalosporium Sacchari Butl.
Penicillium sp.
Cercospora Kopkei Krüg.
Cercospora longipes Butl.
Cercospora Vaginae Krüg.
Helminthosporium Sacchari (v. Breda) Butl.
Helminthosporium stenospilum Drechsl.
Thielaviipsis paradoxa (de Seyn.) v. Höhn.
Fusarium moniliforme Sheld.
Fusarium moniliforme Sheld. var. sublutinans Wollenw.
Himantia stellifera Johnston
Rhizoctonia sp.
Sclerotium Rolfsii Sacc.

Saccharum spontaneum Linn.

Puccinia Kuhnii (Krüg.) Butler

Schizachyrium semiberbe Nees

Phyllachora Schizachyrii Doidge
Uredo Schizachyrii Doidge

Sorghum arundinaceum Stapf

Sorosporium Simii Pole Evans
Sphacelotheca Sorghi (Link) Clint.

Sorghum caffrorum Beauv.

Sclerospora Sorghi (Kulk) Wet & Upp.
Clarvoiceps sp.
Sorosporium filiferum (W. Busse) Zundel
Sorosporium Reilianum (Kuhn) McAlp.
Sphacelotheca cruenta (Kuhn) Potter

Sphacelotheca Sorghi (Link) Clint.
Puccinia purpurea Cooke
Helminth osporium turcicum Pass.
Fusarium culmorum (W.G.Sm.) Sacc.
Fusarium heterosporum Nees var. congoense Wollenw.
Fusarium moniliforme Sheld.

Sorghum dochna (Forsk.) Snowd. var. **melliferum** Snowd.
Sphacelotheca Sorghi (Link) Clint.

Sorghum dochna (Forsk.) Snowd. var. **technicum** (Koern.) Snowd.
Fusarium moniliforme Sheld.

Sorghum Durra Stapf
Sclerospora Sorghi (Kulk) West & Upp.

Sorghum halepense Nees non Pers.
=Sorghum verticilliflorum Stapf

Sorghum halepense Pers.
Sclerospora Sorghi (Kulk) West & Upp.
Sorosporium Reilianum (Kuhn) McAlp.
Colletotrichum graminicolum (West.) Wilson
Helminthosporium turcicum Pass.
Helminthosporium bicolor Mitra

Sorghum sudanense Stapf
Sclerospora Sorghi (Kulk) West. & Upp.
Puccinia purpurea Cooke
Phoma insidiosa Tassi
Colletotrichum graminicolum (West.) Wilson
Cladosporium herbarum Link
Helminthosporium turcicum Pass.

Sorghum versicolor Anders.
Sphacelotheca transvaalensis Zundel

Sorghum verticilliflorum Stapf
Sclerospora Sorghi (Kulk) West. & Upp.
Sorosporium Simii Evans
Sphacelotheca cruenta (Kuhn) Potter
Puccinia purpurea Cooke
Helminthosporium turcicum Pass.

Sorghum virgatum (Hack.) Stapf
Puccinia purpurea Cooke

Sorghum vulgare Pers.
Phyllosticta sorghina Sacc.
Septoria zeina Stout

Sorghum vulgare Pers var. *caffrorum* Hubb. & Rehd.
=Sorghum caffrorum Beauv.

Sorghum spp. indet.
Leptosphaeria Sacchari v. Breda
Sphacelotheca Sorghi (Link) Clint.
Puccinia purpurea Cooke

Themeda Forskalii Hack.
=Themeda triandra Forsk.

Themeda triandra Forsk.
Claviceps sp.
Phyllachora anthistiriicola Syd.
Sorosporium Holstii P. Henn.
Sphacelotheca Vryburgii Zundel
Puccinia versicolor Diet. & Holw.
Cerebella sp.

Trachypogon plumosus Nees
Balansia Trachypogonis Doidge
Ustilago Trachypogonis Zundel
Puccinia eythraeënsis Pazschke

Urelytrum sguarrosum Hack.
Balansia Trachypogonis Doidge

Andropogoneae indet.
? Sorosporium Flanaganianum Zundel
Sorosporium pseudomaranguense Zundel
Sphacelotheca Andropogonis (Opiz) Bubak
Puccinia erythraeënsis Pazschke
Puccinia versicolor Diet. & Holw.

PANICEAE.

Acroceras macrum Stapf
Ustilago Rabenhorstiana Kuhn
? Tilletia Ayresii Berk. ex Mass.
Phyllosticta sp.

Alloteropsis semialata Hitch. var. **Ecklonii** Stapf
Phyllachora stritula Theiss. & Syd.

Anthephora pubescens Nees
Sphacelotheca Anthephorae (Syd.) Zundel

Axonopus semialatus Hook. var. *Ecklonii* Stapf
=Alloteropsus semialatus Hitch. var. Ecklonii Stapf

Brachiaria brizantha Stapf

Claviceps sp.
Phyllachora sanguinolenta Theiss. & Syd.
Sorosporium Brachiariae Hopkins
Uromyces leptodermus Syd.
Fusarium heterosporum Nees var. congoense Wollenwr.
Cerebella sp.

Brachiaria dictyoneura Stapf

Claviceps sp.
Uromyces leptodermus Syd.

Brachiaria erucaeformis Griseb.

Uromyces leptodermus Syd.

Brachiaria Isachne Stapf

=Brachiaria erucaeformis Griseb

Brachiaria nigropedata Stapf

Claviceps sp.

Brachiaria pubifolia Stapf

Fusarium chlamydosporum Wollenw. & Reinking

Brachiaria serrata Stapf

Phyllachora sanguinolenta Theiss. & Syd.
Uromyces leptodermus Syd.
Cercospora fusimaculans Atk.

Brachiaria sp. indet.

Claviceps sp.

Cenchrus ciliaris Linn.

Claviceps sp.
Sorosporium Cenchri (Bref.) Zundel
Beniowskia sphaeriodea (Kalchbr. & Cooke) Mason
Fusarium heterosporum Nees var. congoense Wollenw.
Cerebella sp.

Digitaria argyrograpta Stapf

Sorosporium inconspicuum (Evans) Zundel

Digitaria Brazzae Stapf

Claviceps Digitariae Hansf.
Epichloe cinerea Berk. & Br.
Phyllachora digitaricola Doidge

Digitaria debilis Willd.

Puccinia oahuensis Ell. & Everh.
Uromyces Peglerae Pole Evans

Digitaria decumbens Stent

Puccinia oahuensis Ell. & Everh.

Digitaria diagonalis Stapf

Epichloe cinerea Berk. & Br.

Digitaria eriantha Steud.

Claviceps Digitariae Hansf.
Phallachora Digitariae Syd.
Puccinia oahuensis Ell. & Everh.
Fusarium cscrosporum Nees var. congoense Wollenw.
Cerebella sp.

Digitaria eriantha Steyd. var. **stolonifera** Stapf

Phyllachora Digitariae Syd.

Digitaria gazensis Rendl.

Ustilago Digitariae (Kunze) Rabenh.

Digitaria glauca Stent

Claviceps Digitariae Hansf.

Digitaria horizontalis Willd.

Puccinia oahuensis Ell. & Everh.

Digitaria longiflora Pers.

Phyllachora digitaricola Doidge

Digitaria milanjiana Stapf

Claviceps Digitariae Hansf.

Digitaria monodactyla Stapf

Claviceps Digitariae Hansf.
Phyllachora digitaricola Doidge
Sorosporium inconspicuum (Evans) Zundel
Fusarium heterosporum Nees var. congoense Wollenw.

Digitaria Pentzii Stent

Claviceps Digitariae Hansf.
Phyllachora Digitariae Syd.
Sorosporium inconspicuum (Evans) Zundel
Puccinia oahuensis Ell. & Everh.
Fusarium heterosporum Nees var. congoense Wollenw.
Cerebella sp.

Digitaria sanguinalis Scop.

Phyllachora digitaricola Doidge
Uromyces Peglerae Pole Evans

Digitaria seriata Stapf

Phyllachora Digitariae Syd.

Digitaria setivalva Stent

Puccinia oahuensis Ell. & Everh.
Uromyces Peglerae Pole Evans

Digitaria Smutsii Stent

Claviceps Digitariae Hansf.
Phyllachora Digitariae Syd.
Puccinia oahuensis Ell. & Everh.

Digitaria ternata Stapf

Claviceps Digitariae Hansf.
Ustilago Rabenhorstiana Kuhn
Uromyces Peglerae Pole Evans
Cerebella sp.

Digitaria spp. indet.

Claviceps Digitariae Hansf.
Uromyces Peglerae Pole Evans
Sorosporium inconspicuum (Evans) Zundel
Puccinia oahuensis Ell. & Everh.
Fusarium heterosporum Nees var. congoense Wollenw.

Echinochloa colona Link

Cintractia Crus-Galli (Tracy & Earle) Magn.

Echinochloa Crus-Galli Beauv.

Sphacelotheca Panici-miliacei (Pers.) Bubak
Ustilago trichophora (Link) Kunze

Echinochloa Holubii Stapf

Ustilago Crus-Galli Tracy & Earle
Ustilago Holubii Syd.

Echinochloa pyramidalis Hitch. & Chase

Ustilago trichophora (Link) Kunze

Melinis minutiflora Beauv.

Phyllachora melinicola Syd.

Melinis tenuinervis Stapf

Phyllachora melinicola Syd.
Cintractia Melinis Zundel

Melinis sp. indet.

Phyllachora melinicola Syd.

Oplismenus africanus Beauv.

=Oplismenus hirtellus Beauv.

Oplismenus hirtellus Beauv.

Puccinia advena Syd.

Panicum Crus-Galli Linn.

=Echinochloa Crus-Galli Geauv.

Panicum deustum Thunb.

Phyllachora heterospora P. Henn.
Uromyces leptodermus Syd.
Cerebella sp.

Panicum Helopus Trin.

=Urochloa panicoides Beauv.

Panicum laevifolium Hack

Sorosporium afrum Syd.
Sorosporium harrismithense Zundel
Tilletia Ayresii Berk. ex Mass.
Uromyces leptodermus Syd.
Fusarium heterosporum Nees var. congoense Wollenw.

Panicium longijubatum (Syd.) Zundel

Sorosporium versatilis (Syd.) Zundel
Tilletia verucosa Cooke & Mass.

Panicum maximum Jacq.

Claviceps sp.
Phyllachora heterospora P. Henn.
Sorosporium Panici McKinnon
Tilletia Ayresii Berk. ex Mass.
Uromyces leptodermus Syd.
Fusarium heterosporum Nees var. congoense Wollenw.
Cerebella sp.

Panicum meyerianum Nees

Uromyces leptodermus Syd.

Panicum miliaceum Linn.

Sphacelotheca Panici-miliacei (Pers.) Bubak

Panicum natalense Hochst.

Epichloe cinerea Berk. & Br.

Panicum novemnerve Stapf.

? Helminthosporium turcicum Pass.

Panicum obscurans Stapf

Claviceps sp.
Cerebella sp.

Panicum repens Linn.

? Ustilago Digitariae (Kunze) Rabenh.

Panicum Stapfianum Fourcade

Phyllachora sanguinolenta Theiss. & Syd. var. macrospora Syd.

Panicum minus Stapf

=Panicum Stapfianum Fourcade

Panicum trichopus Hochst.

=Urochloa trichopus Stapf

Panicum spp. indet.

Sphacelotheca Panici-miliacei (Pers.) Bubak
Fusarium heterosporum Nees var. congoense Wollenw.

Paspalum dilatatum Poir.

Claviceps Paspali Stev. & Hall
Fusatium avenaceum (Fr.) Sacc. f.l. Wollenw. & Reinking

Paspalum distichum Linn.

Claviceps Paspali Stev. & Hall
Fusarium avenaceum (Fr.) Sacc. f.l. Wollenw. & Reinking

Paspalum scrobiculatum Linn. var. **Commersoni** Stapf

Claviceps Paspali Stev. & Hall
Phyllachora Winkleri Syd.
Cerebella sp.

Paspalum urvillei Steud.

Claviceps Paspali Stev. & Hall

Paspalum sp. indet.

Claviceps Paspali Stev. & Hall.

Penicillaria spicata Willd.

=Pennisetum typhoides Stapf & Hubb.

Pennisetum cenchroides Nees

=Cenchrus ciliaris Linn.

Pennisetum macrourum Trin.

Claviceps purpurea (Fr.) Tul.
Phyllachora Penniseti Syd.

Pennisetum purpureum Schum.

Beniowskia sphaeroidea (Kalchbr. & Cooke) Mason

Pennisetum sphacelatum Dr. & Sch.

Claviceps purpurea (Fr.) Tul.
Phyllachora Penniseti Syd.

Pennisetum spicatum Koern.

Sclerospora graminicola (Sacc.) Schroet.
Tolyposporium Penicillariae Bref.
Puccinia Penniseti Zimm.
Macrosporium sp.
Cerebella sp.

Pennisetum typhoides Stapf & Hubb.

Sclerospora graminicola (Sacc.) Schroet.
Tolyposporium Penicillariae Bref.
Puccinia Penniseti Zimm.

Pennisetum spp. indet.

Claviceps purpurea (Fr.) Tul.
Beniowskia sphaerioidea (Kalchbr. & Cooke) Mason
Fusarium heterosporum Nees var. congoense Wollenw.

Rhynchelytrum repens (Willd.) Hubb.

Phyllachora Tricholaenae P. Henn.
Diorchidium Tricholaenae Syd.
Stigmella graminicola Linder

Rhynchelytrum setifolium Chiov.

Phyllachora Tricholaenae P. Henn.

Setaria aurea A. Br.

=Setaria sphacelata Stapf & Hubb.

Setaria Chevalieri Stapf

Ustilaginoidea Setariae Bref.
Phyllachora Evansii Syd.

Setaria flabellata Stapf

Claviceps sp.
Phyllachora transvaalensis Doidge
Ustilago Evansii P. Henn.

Setaria glauca Beauv.

Tilletia echinosperma Ains.

Setaria italica (L. Beauv.

Ustilago Crameri Koern.

Setaria Lindenbergiana Stapf.

Phyllachora Evansii Syd.

Setaria nigrirostris Dur. & Schinz

Epichloe cinerea Berk. & Br.
Phyllachora transvaalensis Doidge
Beniowskia sphaeroidea (Kalchbr. & Cooke) Mason
Fusarium heterosporum Nees var. Congoense Wollenw.

Setaria pallidifusca Stapf & Hubb.

Ustilago verruculosa Wakef.
Uromyces Setariae-italicae (Diet.) Yoshino

Setaria perennis Hack

Claviceps sp.
Sorosporium Setariae McAlp.
Fusarium heterosporum Nees var. congoense Wollenw.

Setaria sphacelata Stap & Hubb.

Claviceps sp.
Ustilaginoidea Setariae Bref.
Phyllachora transvaalensis Doidge
Ustilago Evansii P. Henn.
Tilletia echinosperma Ains.
Beniowskia sphaeroidea (Kalchbr. & Cooke) Mason
Fusarium heterosporum Nees var. congoense Wollenw.

Setaria sulcata Raddi

=Setaria Chevalieri Stapf

Setaria verticillata Beauv.

Sclerospora graminicola (Sacc.) Schroet.
Uromyces Setariae-italicae (Diet.) Yoshino
Beniowskia sphaeroidea (Kalchbr. & Cooke) Mason

Setaria spp. indet.

Ustilago Evansii P. Henn.
Fusarium heterosporium Nees var. congoense Wollenw.

Stenotaphrum glabrum Trin.

=Stenotaphrum secundatum (Walt.) Kunze

Stenotaphrum secundatum (Walt.) Kunze

Ustilago affinis Ell. & Everh.
Uredo Stenotaphri Syd.

Tricholaena Monachme Stapf. & Hubb.

Phyllachora Tricholaenae P. Henn.

Tricholaena rosea Nees

=Rhynchelytrum repens (Willd.) Hubb.

Urochloa bulbodes Stapf

Sorosporium afrum Syd.
Uromyces leptodermus Syd.

Urochloa mosambicensis (Hack) Dandy

Phyllachora sanguinolenta Theiss. & Syd.
Uromyces leptodermus Syd. ..
Fusarium heterosporum Nees var. congoense Willenw.

Urochloa panicoides Beauv.

Phyllachora sanguinolenta Theiss. & Syd.
Sorosporium verecundum (Syd.) Zundel
Sphacelotheca pretoriense (Evans) Zundel
Uromyces leptodermus Syd.
Helminthosporium Leersii Atk.

Urochloa pullulans Stapf

Phyllachora sanguinolenta Theiss. & Syd. var. microspora Syd.
Uromyces leptodermus Syd.
Cerebella sp.

Urochloa trichopus Stapf

Sorosporium africanum Syd.
Sorosporium cryptum McAlp.
Ustilago Urochloana Zundel
Uromyces leptodermus Syd.
Cerebella sp.

Urochloa sp. indet.

Uromyces leptodermus Syd.

Paniceae indet.

Sorosporium Hotsonii Zundel

ARUNDINELLAE.

Arundinella Ecklonii Nees

Phyllachora Arundinellae Doidge
Puccinia Arundinellae Barcl.
Coniosporium Schiraianum (Syd.) Bubak

Arundinella sp. indet.

Ustilaginoidea mossambicensis P. Henn.

Loudetia simplex (Nees) Hubb.

Phyllachora Loudetiae Doidge
Sorosporium consanguineum Ell. & Everh.

Tristachya hispida (Thunb.) K.Schum.

Tolyposporium Tristachydis (Syd.) Zundel
Puccinia Tristachyae Doidge

Tristachya Rehmanni Hack.

Epichloe cinerea Berk. & Br.
Tolyposporium Tristachydis (Syd.) Zundel
Puccinia Tristachyae Doidge

AVENEAE.

Arrhenatherum elatius (Linn.) Mert. & Koch

Puccinia graminis Pers.

Avena fatua Linn.

Puccinia graminis Pers.

Avena sativa

Erysiphe graminis DC.
Ophiobolus herpotrichus (Fr.) Sacc.
Pyrenophora Avenae Ito
Ustilago Avenae (Pers.) Jens.
Ustilago levis (Kellerm. & Swing.) Magn.
Puccinia coronata Corda
Puccinia graminis Pers.
Chaetomella Tritici Ten. & Dan.
Septoria Avenae Frank
Alternaria tenuis Nees
Alternaria sp.
Cladosporium herbarium Link
Heterosporium Avenae Oud.
Fusarium avenaceum (Fr.) Sacc.
Fusarium oxysporum Schlecht.
Sclerotium Rolfsii Sacc.

Danthonia papposa Nees

Ustilago Danthoniae Kalchbr.

Danthonia stricta Schrad.

? Ustilago Danthoniae Kalchbr.

ARUNDINEAE.

Arundo Donax Linn.

Puccinia torosa Thuem.

Phragmites communis Trin.

Puccinia Magnusiana Koern.
Puccinia Phragmitis (Schum.) Koern.
Hadotrichum Phragmitis Fuck.
Papularis sphaerospoerma (Fr.) v. Höhn.

AGROSTEAE.

Agrostis lachnantha Nees
Puccinia graminis Pers.

STIPEAE.

Aristida aequiglumis Hack.
Puccinia Eylesii Doidge

Aristida barbicollis Trin. & Rupr.
Puccinia Bottomleyae Doidge

Aristida canescens Henr.
Puccinia aristidicola P. Henn.
Puccinia Bottomleyae Doidge

Aristida congesta R. & S.
Puccinia aristidicola P. Henn.

Aristida curvata Trin. & Rupr.
Puccinia Bottomleyae Doidge

Aristida junciformis Trin. & Rupr.
Sorosporium consanguineum Ell. & Everh.
Puccinia Bottomleyae Doidge
Puccinia Eylesii Doidge

Aristida scabrivalvis Hack.
Puccinia Bottomleyae Doidge
Puccinia Eylesii Doidge

Aristida transvaalensis Henr.
Puccinia Eylesii Doidge

Aristida spp. indet.
Sorosporium consanguineum Ell. & Everh.
Puccinia Eylesii Doidge
Lacellinia graminicola (Berk. & B.) Petch.

Stipa Dregeana Steud. var. **elongata** Stapf
Meliola Panici Earle
Ophiobolus Stipae Doidge

ZOYSIAE.

Perotis indica (Linn.) O. Ktze.
Phyllachora Perotidis Doidge

Tragus Berteronianus Schult.
Ustilago Tragana Zundel

SPOROBOLEAE.

Sporobolus capensis (Willd.) Kunth

Epichloe cinerea Berk. & Br.
Ustilago Schlechteri P. Henn.
Puccinia luxuriosa Syd.
Puccinia tosta Arth.
Uromyces tenuicutis McAlp.
Helminthosporium Ravenelii Berk. & Curt.

Sporobolus fimbriatus Nees

Puccinia tosta Arth.
Helminthosporium Ravenelii Berk. & Curt.

Sporobolus fimbriatus Nees var. **latifolius** Stent

Puccinia tosta Arth.

Sporobolus pectinatus Hack.

Puccinia luxuriosa Syd.

Sporobolus pyramidalis Beauv.

Phyllachora Morganae Doidge
Uromyces tenuicutis McAlp.
Helminthosporium Ravenelii Berk. & Curt.

Sporobolus spp. indet.

Phyllachora Morganae Doidge
Ustilago Schlechteri P. Henn.

ERAGROSTEAE.

Bewsia biflora Goossens

Epichloe cinerea Berk. & Br.

Eragrostis abyssinica Link

=Eragrostis tef (Zucc.) Trotter

Eragrostis aspera Nees

Sclerospora Butleri Weston
Tilletia transvaalensis Zundel

Eragrostis Atherstonei Stapf

Uromyces Eragrostidis Tracy

Eragrostis chalcantha Trin.

Puccinia Eragrostidis-chalcanthae Doidge

Eragrostis chloromelas Steud.

Epichloe cinerea Berk. & Br.
Uromyces Eragrostidis Tracy

Eragrostis curvula Nees

Epichloe cinerea Berk. & Br.
Phyllachora eragrostidicola Doidge
Phyllachora sp.
Uromyces Eragrostidis Tracy
Helminthosporium Miyakei Nisikado

Eragrostis gangetica Steud.

Phyllachora eragrostidicola Doidge

Eragrostis happula Nees var. **divaricata** Stapf

Puccinia Eragrostidis-superbae Doidge

Eragrostis japonica Trin.

Ustilago Eragrostidis-japonicana Zundel

Eragrostis Lehmanniana Nees

Phyllachora eragrostidicola Doidge

Eragrostis plana Nees

Epichloe cinerea Berk. & Br.

Eragrostis ?porosa Nees

Ustilago Dregeana Tul.

Eragrostis robusta Stent

Epichloe cinerea Berk. & Br.
Phyllachora eragrostidicola Doidge

Eragrostis sclerantha Nees

Epichloe cinerea Berk. & Br.

Eragrostis superba Peyr.

Phyllachora superba Doidge
Puccinia Eragrostidis-superbae Doidge
Uromyces Eragrostidis Tracy

Eragrostis tef (Zucc.) Trotter

Uromyces Eragrostidis Tracy

Eragrostis spp. indet.

Sclerospora Butleri Weston
Epichloe cinerea Berk. & Br.
Phyllachora eragrostidicola Doidge
Phyllachora sp.

Pogonarthria squarrosa (Licht.) Pilg.

Puccinia Pogonarthriae (Syd.) Hopkins

Chloris gayana Kunth.

Phyllachora Cynodontis (Sacc.) Niessl. var. Chloridis P. Henn.
Tolyposporium Chloridis P. Henn.
Puccinia Chloridis Speg.

Chloris pycnothrix Trin.

Phyllachora Cynodontis (Sacc.) Niessl. var. Chloridis P. Henn.
Puccinia Chloridis Speg.

Chloris virgata Swartz

Ustilago Liebenbergii Zundel
Puccinia Chloridis Speg.
Uromyces Chloridis Doidge

Chloris sp. indet.

Phyllachora chloridicola Speg.
Puccinia Chloridis Speg.

Ctenium concinnum Nees

Epichloe cinerea Berk. & Br.

Cynodon Bradleyi Stent

Ustilago Cynodontis P. Henn.
Helminthosporium Cynodontis Marign.
Helminthosporium dematoideum Bubak & Wrobl.

Cynodon Dactylon Pers.

Balansia Cynodontis Syd.
Claviceps sp.
Phyllachora Cynodontis (Sacc.) Niessl.
Ustilago Cynodontis P. Henn.
Puccinia Cynodontis Desm.
Curvularia spicifera (Bain.) Boedyn
Helminthosporium Cynodontis Marign.
Helminthosporium dematoideum (Bain.) Boedyn
Fusarium heterosporum Nees var. congoense Wollenw.
Cerebella Cynodontis Syd.
Rhizoctonia Solani Kühn
Rhizoctonia sp.

Cynodon hirsutus Stent

Phyllachora Cynodontis (Sacc.) Niessl.

Cynodon hirsutus Stent var. **parviglumus** Stent

Ustilago Cynodontis P. Henn.

Cynodon incompletus Nees

Phyllachora Cynodontis (Sacc.) Niesel.

Ustilago Cynodontis P. Henn.
Lentinus stuppeus K'otzsch.

Cynodon plectostachyum Pilg.
Balansia Cynodontis Syd.
Claviceps sp.
Phyllachora Cynodontis (Sacc.) Niesel
Cerebella Cynodontis Syd.

Cynodon transvaalensis Burtt Davy
Balansia Cynodontis Syd.
Pleospora gramineum Died.
Curvularia spicifera (Bain.) Boedyn
Helminthosporium Cynodontis Marign.
Helminthosporium dematoideum Bubak & Wrobl.
Rhozoctonia Solani Kühn.

Cynodon sp. indet.
Ustilago Cynodontis P. Henn.
Fusarium heterosporum Nees var. congoense Wollenw.
Sclerotium Rolfsii Sacc.

Dactyloctenium aegyptiacum Willd.
=Dactyloctenium aegyptium (Linn.) Beauv.

Dactyloctenium aegyptium (Linn.) Beauv.
Ustilago Dactyloctaenii P. Henn.

Dactyloctenium geminatum Hack.
Ustilago Dactyloctaenii P. Henn.

Eleusine indica (Linn.) Gaertn.
Helminthosporium leucostylum Drechsl.
Fusarium avenaceum (Fr.) Sacc.
Fusarium moniliforme Sheld.
Fusarium Scirpi Lamb. & Fautr.

Leptocarydion Vulpiastrum Stapf.
Phyllachora Leptocarydii Syd.

Microchloa caffra Nees
Epichloe cinerea Berk. & Br.

Trichoneura grandiglumis (Rendl) Stapf. & Hubb.
Uromyces Trichoneurae Doidge
Ustilago Trichoneurana Zundel

PAPPOPHOREAE.

Enneapogon brachystachyus Stapf
Sphacelotheca modesta (Syd.) Zundel

Enneapogon cenchroides (Licht.) Hubb.

Sphacelotheca Pappophori (Pat.) Zundel

Enneapogon scaber Lehm.

Sphacelotheca Pappophori (Pat.) Zundel

ORYZEAE.

Oryza sativa Linn.

Leptosphaeria Salvinii Catt.
Piricularia Oryzae Bri. & Cav.
Phoma glumarum Ell. & Tracy
Septoria longispora Miyake
Helminthosporium Oryzae van Breda
Helminthosporium sigmoideum Cav.
Nigrospora sphaerica (Petch) Sacc.
Epicoccum neglectum Desm.

PHALARIDEAE.

Ehrharta bulbosa Sm.

Claviceps sp.

Ehrharta calycina Sm.

Uredo Ehrhartae-calycinae Doidge
Claviceps sp.

Ehrharta capensis Thunb.

Claviceps sp.

Ehrharta erecta Lam. var. **natalensis** Stapf.

Ustilago Ehrhartana Zundel

Ehrharta gigantea Thunb.

Uromyces Ehrhartae-giganteae Doidge

Ehrharta sp. indet.

Phyllachora sp.
Ustilago Sladenii Pole Evans

Phalaris arundinacea Linn.

Claviceps sp.

Phalaris tuberosa Linn.

Claviceps sp.

FESTUCEAE.

Brachypodium flexum Nees

Claviceps sp.
Phyllachora Brachypodii Roum.
Cerebella sp.

Briza maxima Linn.
Phyllachora sp.
Tilletia Viennotii Syd.
Helminthosporium Brizae Nisikado

Bromus brevis Steud
Ustilago bromvora (Tul.) Fisch. v. Waldh.

Bromus catharticus Vahl
Ustilago bromivora (Tul.) Fisch. v. Waldh.
Fusarium heterosporum Nees var. congoense Wollenw.

Bromus patulus Mért. & Koch.
Puccinia bromina Erikss.

Bromus rigidus Roth.
Puccinia bromina Erikss.
Puccinia graminis Pers.

Bromus unioloides H.B.Cl.
=Bromus catharticus Vahl

Bromus sp. indet.
Puccinia bromina Erikss.

Dactylis glomerata Linn.
Puccinia graminis Pers.
Clasterosporium clavatum (Lév.) Sacc.

Festuca elatior Linn.
Claviceps purpurea (Fr.) Tul.
Puccinia graminis Pers.

Festuca scabra Vahl
Claviceps purpurea (Fr.) Tul.

Fingerhuthia africana Lehm.
Ustilago Fingerhuthiae Syd.

Poa annua Linn.
Puccinia coronata Corda
Puccinia Poarum Niels.

HORDEAE.

Aegilops cylindrica Host.
Puccinia triticina Erikss.

Elymus sp. indet.
Urocystis Agropyri (Preuss.) Schroet.

Hordeum murinum Linn.

Puccinia anomala Rostr.
Puccinia graminis Pers.
Septoria Passerinii Sacc.

Hordeum nodosum Linn.

Puccinia graminis Pers.

Hordeum vulgare Linn.

Erysiphe graminis DC.
Ustilago Hordei (Pers.) Lagerh.
Ustilago nuda (Jens.) Kellerm. & Swing.
Puccinia graminis Pers.
Rhynchosporium secalis (Oud.) Davis
Helminthosporium gramineum Rabenh.
Helminthosporium sativum Pammel King & Bakke
Helminthosporium teres Sacc.

Hordeum vulgare Linn. var. **trifurcatum** (Schlecht.) Alefeld

Puccinia anomala Rostr.

Hordeum sp. indet.

Puccinia anomala Rostr.
Puccinia graminis Pers.
Schlerotium Rolfsii Sacc.

Lepturus cylindricus Trin.

Colletotrichum cereale Manns

Lolium italicum A. Br.

=Lolium multiflorum Lam.

Lolium multiflorum Lam.

Claviceps purpurea (Fr.) Tul.
Puccinia coronata Corda
Fusarium heterosporum Nees var. congoense Wollenw.

Lolium perenne Linn.

Puccinia coronata Corda
Puccinia graminis Pers.
Colletotrichum cereale Manns

Lolium temulentum Linn.

Puccinia graminis Pers.
Ovularia Lolii Volkart
Fusarium culmorum (W.G.Sm.) Sacc.

Lolium sp. indet.

Septoria Lolii (Cast.) Sacc.

Secale africanum Stapf

Puccinia dispersa Erikss. & Henn.

Secale cereale Linn.

Urocystis occulta (Wallr.) Rabenh.
Puccinia dispersa Erikss. & Henn.
Puccinia graminis Pers.
Cladosporium herbarum Link.
Heterosporium Secalis Dipp.

Triticum aestivum Linn.

Erysiphe graminis DC.
Gibberella Saubinetii (Mont.) Sac. pr. p.
Ophiobolus graminis Sacc.
Ustilago Tritici (Pers.) Rostr.
Tilletia foetans (Berk. & Curt.) Trel.
Tilletia Tritici (Bjerk.) Wint.
Urocystis Tritici Koern.
Puccinia graminis Pers.
Puccinia triticina Erikss.
Septoria graminum Desm.
Septoria nodorum Berk.
Septoria Tritici Desm.
Thyrococcum humicola Buchanan
Cercosporella herpotrichioides Fron.
Verticillium terrestre (Pers.) Sacc.
Cladosporium Herbarum Link
? Curvularia lunata (Wakker) Boedyn
Curvularia spicifera (Bain.) Boedyn
Curvularia sp.
Helminthosporium bicolor Mitra
Helminthosporium dematoideum Drechsl.
Helminthosporium halodes Drechsl.
Helminthosporium rostratum Drechsl.
Helminthosporium sativum Pamm. King & Bakke
Alternaria tenuis Nees
Fusarium avenaceum (Fr.) Sacc.
Fusarium culorum (W.G.Sm.) Sacc.
Fusarium graminearum Schwabe
Fusarium orthoceras App. & Wollenw. var. longius (Sherb.) Wollenw.
Fusarium moniliforme Sheld.
Fusarium semitectum Berk. & Rav. var. majus Wollenw.
Fusarium sporotrichioides Sherb.
Epicoccum humicola (Buchanan) Sacc.
Rhizoctonia sp.

Triticum dicoccum Schrank.

Urocystis Tritici Koern.

Triticum durum Desf.

Urocystis Tritici Koern.

Triticum Timopheeni Zhuk (hybrid)
Puccinia triticina Erikss.

Triticum turgidum Linn.
Urocystis Tritici Koern.

Triticum vulgare Vill.
=Triticum aestivum Linn.

BAMBUSEAE.

Arundinaria tesselata Munro
Phyllachora permutata Petrak

Bambusa Balcooa Roxb.
Septoria Bambusae Verw. & du Pless.
Helminthosporium sp.

Bambusa spp. indet.
? Helminthosporium sativum Pamm. King & Bakke
Stilbum cinnabarinum Mont.

Gramineae indet.
Pyrenophora horrida Syd.
Puccinia graminis Pers.

CYPERACEAE.

Bulbostylis Burchellii C.B.Cl.
Puccinia Bulbostylidis Doidge

Carex aethiopica Schkuhr
Farysia olivacea (DC.) Syd.

Carex cernua Boott. var. **austro-africana** Kuk
Puccinia Caricis-cernuae Doidge

Carex clavata Thunb.
Farysia olivacea (DC.) Syd.

Carex petitiana A. Rich.
Metasphaeria cumana (Sacc. & Speg.) Sacc.
Uredo Caricis -petitianae Doidge
Vermicularia Dematium Fr.

Carex phacota Spreng.
Farysia olivacea (DC.) Syd.

Carex spicato-paniculata C.B.Cl.
Farysia olivacea (DC.) Syd.

Carex sp. indet.
Farysia olivacea (DC.) Syd.

Cladium jamaicense Crantz
=Cladium Mariscus R. Br.

Cladium Mariscus R. Br.
Meliola argentina Speg.

Cyperus albostriatus Schrad.
Puccinia Morganae Doidge

Cyperus difformis Linn.
Uredo cypericola P. Henn.

Cyperus esculentus Linn.
Claviceps sp.
Puccinia canaliculata (Schw.) Lagerh. var. tenuis Doidge

Cyperus fastigiatus Rottb.
Puccinia Cyperi-fastigiati Doidge

Cyperus longus Linn. var. **tenuiflorus** Boeck.
Uredo cypericola P. Henn.

Cyperus mariscus Nees
=Cyperus albostriatus Schrad.

Cyperus rotundus Linn.
Claviceps sp.
Cerebella sp.

Cyperus tenuifforus Rottb.
=Cyperus longus Linn. var. tenuiflorus Boeck.

Cyperus usitatus Burch.
Puccinia Pottsii Doidge

Cyperus spp. indet.
Cintractia togoensis P. Henn.
Puccinia Cyperi-tagetiformis (P. Henn.) Kern
Puccinia Pegleriana Doidge
Puccinia transvaalensis Doidge
Uredo cypericola P. Henn.
Cerebella sp.

Fimbristylis exilis R. & S.
Cintractia axicola (Berk.) Cornu

Fuirena chlorocarpa Ridley
Puccinia fuirenella Doidge

Fuirena coerulescens Steud.
Puccinia fuirenella Doidge

Fuirena pubescens (Lam.) Kunth
Puccinia fuirenella Doidge

Kyllinga melanosperma Nees
Puccinia kyllingicola Doidge

Mariscus congestus C.B.Cl.
Puccinia hennopsiana Doidge

Mariscus sieberianus Nees
Ustilago Mariscana Zundel

Pycreus lanceus (Thunb.) Turrill
Uredo sp.

Pycreus polystachyus Beauv.
Uredo sp.

Rhynchospora aurea Vahl
Cintractia leucoderma P. Henn.

Rhynchospora dolichostyla K. Schum.
Cintractia leucoderma P. Henn.

Schoenoxiphium sparteum (Wahl.) Kuk
Puccinia Schoenoxiphii Doidge

Scirpus corymbosus Roth.
Uredo Scirpi-corymbosi Doidge

Scirpus costatus Boeck
Claviceps sp.

Scirpus maritimus Linn.
Uredo Scirpi-maritimi Doidge

Scleria Dregeana Kunth
Puccinia Scleriae-Dregeanae Doidge

PALMAE.

Acanthophoenix rubra H. Wendl

Botryodiplodia Palmarum (Cooke) Petr. & Syd.

Caryota urens Linn.

Pleospora Kentiae Maubl.

Cocos nucifera Linn.

Ganoderma applanatum (Pers.) Pat.
Conothyrium palmicolum (Fr. pr. p.) Starb.
Botryodiplodia Palmurum (Cooke) Petr. & Syd.
Diplodia palmicola Thuem.
Gloeosporium cocophilum Wakef.
Coryneum Cocoes P. Henn.
Pestalotia palmarum Cooke

Kentia sp. indet.

Pleospora Kentiae Maubl.
Gloeosporium Ptychospermatis P. Henn.
Fusarium Scirpi Lamb. & Fautr.

Phoenix canariensis Chaub.

Graphiola Phoenicis (Moug.) Poit.

Phoenix dactylifera Linn.

Anthostomella capensis Doidge
Graphiola Phoenicis (Moug.) Poit.

Phoenix reclinata Jacq.

Meliola palmicola Wint.
Graphiola Phoenicis (Moug.) Poit.
? Poria Ravenalae (Berk. & Br.) Coke
Marasmius candidus (Bolt. ex Fr.) Fr.
Schizophyllum commune Fr.
Pestalotia palmarum Cooke
Exosporium palmarum Cooke

Phoenix sp. indet.

Stagonospora Kentiae Maubl.

Roystonia regia O.F. Cook

Assochyta Kentiae Maubl.

Palmae indet.

Pleospora Kentiae Maubl.

ARACEAE.

Monstera deliciosa Liebm.

Diplodia Monsterae Verw. & Dipp.

Stylochiton natalense Schott.
Uromyces Stylochitonis Doidge

Zantedeschia aethiopica (Linn.) Spreng.
Phoma Zantedeschiae Dipp.
Phyllosticta Richardiae Halst.
Septoria Aracearum Sacc.
Ovulariopsis sp.
Ramularia Richardiae Kalchbr.
Cercospora richardiaecola Atk.

Zantedeschia albomaculata (Hk. f.) Baill.
Ramularia Richardiae Kalchbr.

Zantedeschia angustiloba (Schott.) Engl.
Cercospora richardiaecola Atk.

Zantedeschia Elliotiana (Knight) Engl.
Cercospora richardiaecola Atk.

Zantedeschia melanoleuca (Hk.f.) Engl.
Cercospora richardiaecola Atk.

Zantedeschia Rehmanii Engl.
Cercospora richardiaecola Atk.

Zantedeschia spp. indet.
Septoria Aracearum Sacc.
Cercospora richardiaecola Atk.

RESTIONACEAE.

Restio sp. indet.
Linochora Doidgei Syd.

ERIOCAULACEAE.

Eriocaulon sp. indet.
Stereum Ravenelii Berk. & Curt.

COMMELINACEAE.

Aneilema Dregeanum Kunth
Uredo Commelinae Kalchbr.

Aneilema sp. indet.
Uromyces Commelinae Cooke.

Commelina africana Linn.
Uromyces pretoriensis Doidge

Commelina benghalensis Linn.

Uromyces Commelinae Cooke
Cercospora Commelynae Kalchbr. & Cooke

Commelina Krebsiana Kunth

Uromyces Commelinae Cooke

Commelina Livingstoni C.B.Cl.

Uromyces Commelinae Cooke

Commelina madagascarica C.B.Cl.

Uredo Commelinae Kalchbr.

Commelina spp. indet.

Uredo Commelinae Kalchbr.
Uredo Commelinae Kalchbr.
Uromyces Commelinae Cooke
Cylindrosporium Kilimandscharicum Allesch.
Cercospora Commelynae Kalchbr. & Cooke

BROMELIACEAE.

Ananas comosus Merr.

Penicillium funiculosum Thom
Penicillium ? Petchii Sartory & Bain.
Penicillium pinophilum Hedgcock
Thielaviopsis paradoxa (de Seyn.) v. Höhn.
Fusarium moniliforme Sheld.

Billbergia sp. indet.

Pleospora Billbergiae Verw. & du Pless.

ZINGIBERACEAE.

Kaempferia Ethelae Medley Wood

Uredo Kaempferiae Syd.

Kaempferia sp. indet.

Uredo Kaempferiae Syd.

Zingiber officinale Roscoe

Sclerotium Rolfsii Sacc.

JUNCACEAE.

Juncus capensis Thunb.

Cintractia capensis (Reess) Ciferi
Cintractia piluliformis (Berk.) P. Henn.

Juncus lomatophyllus Spreng.

Cintractia capensis (Reess) Ciferri
Puccinia Junci-oxycarpi Doidge

Juncus oxycarpus E. Mey.

Puccinia Junci-oxycarpi Doidge

Juncus punctorius Linn. f.

? Puccinia Junci-oxycarpi Doidge

Juncus spp. indet.

Cintractia piluliformis (Berk.) P. Henn.
Puccinia Junci-oxycarpi Doidge

LILIACEAE.

Agapanthus africanus Hoffm.

Mycosphaerella Agapanthi (Kalchbr. & Cooke) Lindau
Macrophoma Agapanthi Trav.

Agapanthus umbellatus L'Her.

=Agapanthus africanus Hoffm.

Agapanthus sp. indet.

Phoma Agapanthi (Thuem.) Sacc.

Albuca altissima Dryand

Ustilago Vaillanti Tul.
Uromyces Albucae Kalchbr. & Cooke

Albuca aurea Jacq.

Uromyces Albucae Kalchbr. & Cooke

Albuca fastigiata Dryand

Ustilago Vaillanti Tul.

Albuca juncifolia Bkr.

Uromyces Albucae Kalchbr. & Cooke

Albuca minor Linn.

Uromyces Albucae Kalchbr. & Cooke

Albuca spp.

Uromyces Albucae Kalchbr. & Cooke

Allium ascalonicum Linn.

Peronospora destructor (Berk.) Casp.

Allium Cepa Linn.

Peronospora destructor (Berk.) Casp.
Pleospora herbarum (Pers.) Rabehn.
Phoma terrestris Hans.
Phyllosticta Cepae Verw. & du Pless.

Colletotrichum circinans (Berk.) Vogl.
Aspergillus niger v. Tiegh.
Botrytis Allii Munn.
Alternaria Allii Nolla
Alternaria tenuis Nees
Macrosporium cladosporioides Desm.
Macrosporium Porri Ell.
Macrosporium sarcinula Berk.
Mystrosporium Alliorum Berk.
Fusarium angustum Sherb.
Fusarium bulbigenum Cooke & Mass.
Fusarium moniliforme Sheld.
Fusarium oxysporum Schlecht. f.7. Wollenw.
Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Fautr. var. filiferum (Preuss.) Wollenw.
Fusarium Solani (Mart.) Appel & Wollenw.
Fusarium Solani (Mart.) Appel & Wollenw. var. Martii f.l. Wollenw.
Fusarium vasinfectum Atk. var. zonatum Sherb. f.2. (Link & Bailey) Wollenw.
Rhizoctonia sp.
Sclerotium cepivorum Berk.
Sclerotium Rolfsii Sacc.

Allium Cepa Linn. var. **solaninum** Alef.

Fusarium oxysporum Schlecht. f.7.Wollenw.

Allium Dregeanum Kunth

? Puccinia Allii (D.C.) Rud.

Allium Porrum Linn.

Mycosphaerella schoenoprasi (Rabenh.) Schroet.
Fusarium oxysporum Schlecht. f.7. Wollenw.

Allium sativum Linn.

Puccinia Allii (D.C.) Rud.
Fusarium bulbigenum Cooke & Mass.
Fusarium oxysporum Schlecht. f. 7. Wollenw.

Allium Schoenoprasum Linn.

Vermicularia Dematium Fr.
Macrosporium punctatum Kalchbr. & Cooke

Aloe affinis Berg.

Leptosphaeria Verwoerdiana du Pless.
Macrophoma Aloes Scalia

Aloe africana Mill.

Montagnella maxima Mass.

Aloe arborescens Mill.

Placoasterella Rehmii (P. Henn.) Theiss. & Syd.

Polystictus sanguineus (Linn. ex. Fr.) Fr.
Fusarium Scirpi Lamb. & Fautr. var. acuminatum (Ell. & Everh.) Wollenw.

Aloe arborescens Mill. var. **natalensis**

Placoasterella Rehmii (P. Henn.) Theiss. & Syd.
Uromyces Aloes (Cooke) Magn.
Polystictus sanguineus (Linn. ex Fr.) Fr.

Aloe ausana Dinter

=Aloe variegata Linn.

Aloe Barbertoniae Pole Evans

Uromyces Aloes (Cooke) Magn.

Aloe Baumii Engl. & Gilg.

Uromyces Aloes (Cooke) Magn.

Aloe cryptopoda Bkr.

Montagnella maxima Mass.

Aloe Davyana Schön.

Uromyces Aloes (Cooke) Magn.

Aloe dolomitica Groen.

Montagnella maxima Mass.

Aloe ferox Mill.

Montagnella maxima Mass.
Uromyces Aloes (Cooke) Magn.

Aloe grandidentata Salm.

Uromyces Aloes (Cooke) Magn.

Aloe Greatheadii Schönl.

Uromyces Aloes (Cooke) Magn.

Aloe Greenii Bkr.

Uromyces Aloes (Cooke) Magn.

Aloe latifolia Haw.

Uromyces Aloes (Cooke) Magn.
Phyllosticta Aloes Kalchbr.

Aloe lineata (Ait.) Haw.

Anthostomella nigro-annulata (Berk. & Curt.) Sacc.
Mycosphaerella Aloes Syd.

Aloe Marlothii Berger

Uromyces Aloes (Cooke) Magn.
Polystictus sanguineus (Linn. ex Fr.) Fr.

Aloe microstigma Salm.

Didymosphaeria clavata du Pless.

Aloe mitriformis Mill.

Dothidea aloicola P. Henn.
Placoasterella Rehmii (P. Henn.) Theiss. & Syd.
Cytosporella Aloes du Pless.
Macrophoma Aloes Scalia

Aloe natalensis Wood & Evans

=Aloe arborescens Mell, var. natalensis

Aloe platylepis Bkr.

Montagnella maxima Mass.

Aloe purpurascens (Ait.) Haw.

Uromyces Aloes (Cooke) Magn.

Aloe saponaria (Ait.) Haw.

Uromyces Aloes (Cooke) Magn.

Aloe striata Haw.

Uromyces Aloes (Cooke) Magn.

Aloe striatula Haw.

Leptosphaeria Verwoerdiana du Pless.
Macrophoma Aloes Scalia

Aloe Thraskii Bkr.

Uromyces Aloes (Cooke) Magn.

Aloe transvaalensis O. Kze.

Uromyces Aloes (Cooke) Magn.

Aloe umbellata Salm.

=Aloe saponaria Haw.

Aloe variegata Linn.

Pythium ultimum Trow
Macrophoma Aloes Scalia

Aloe spp. indet.

Placoasterella Rehmii (P. Henn.) Theiss. & Syd.
Montagnella maxima Mass.

Physalospora Bylii du Pless.
Pleospora herbarum (Pers.) Rabenh.
Uromyces Aloes Cooke
Polystictus cinnabarinus (Jacq. ex Fr.) Cooke
Polystictus regius (Miq.) Cooke
Polystictus sanguineus (Linn. ex Fr.) Fr.
Macrophoma Aloes Scalia
Pestalotia Aloes Trinch.
Verticillium pulvinulum Kalchbr. & Cooke
Mystrosporium polytrichum Cooke

Anthericum ciliatum Linn. f.

Puccinia polycampta Syd.

Anthericum hispidum Linn.

Puccinia polycampta Syd.

Anthericum longipedunculatum Steud.

Puccinia polycampta Syd.

Anthericum revolutum Linn.

Puccinia polycampta Syd.

Anthericum triphyllum Bkr.

Rhizoctonia sp.

Anthericum spp. indet.

Aecidium Antherici P. Henn. & Evans
Puccinia polycampta Syd.
? Uromyces Bylianus Doidge
? Uromyces Krantzbergensis Doidge

Asparagus asparagoides (Linn.) Druce

Aecidium Schlechterianum P. Henn.
Puccinia Myrsiphylli (Thuem.) Wint.

Asparagus Cooperi Bkr.

Puccinia Asparagi DC.

Asparagus falcatus Linn.

Puccinia phyllocladiae Cooke

Asparagus laricinus Burch.

Puccinia ranulipes Doidge

Asparagus medeoloides Thunb.

=Asparagus asparagoides (Linn.) Druce

Asparagus plumosus Bkr.
Microcyclus kentaniensis Doidge
Puccinia Asparagi DC.

Asparagus sarmentosus Linn.
Puccinia Phyllocladiae Cooke.

Asparagus striatus Thunb.
Hysterostomella tenella Syd.

Asparagus subulatus Thunb.
Hysterostomella tenella Syd.

Asparagus spp. indet.
Polystomella caulicola Doidge
Diatrype caulina Syd.
? Aecidium capense Berk. & Curt.

Behnia reticulata F. Didrichs
Meliola Behniae Syd.

Bulbine aloöides Willd.
Uromyces Bulbinis Thuem.
? Aecidium Bulbinis P. Henn. & Evans.

Bulbine asphodeloides Roem. & Schult.
Aecidium Bulbinis P. P. Henn. & Evans

Bulbine favosa Roem. & Schult.
Aecidium Bulbinis P. Henn. & Evans

Bulbine latifolia Roem. & Schult.
Uromyces Bulbinis Thuem.

Bulbine narcissifolia Salm.
Aecidium Bulbinis P. Henn. & Evans

Bulbine praemorsa Roem. & Schult.
Uromyces Bulbinis Thuem.

Bulbinella robusta Kunth
Puccinia contecta Syd.

Chlorophytum comosum Bkr.
Aecidium Hartwegiae Thuem.

Chlorophytum Sternbergianum Steud.
=Chlorophytum comosum Bkr.

Chlorophytum sp.
Aecidium Hartwegiae Thuem.
? Uromyces Bylianus Doidge

Dipcadi viride Moench.
Aecidium Dipcadi-viridis Doidge

Drimia pusilla Jacq.
Puccinia Drimiae v.d.Byl.

Drimiopsis maculata Lindl.
Uromyces Drimiopsidis Doidge

Eriospermum cernuum Bkr.
Uromyces Eriospermi Kalchbr. & Cooke

Eriospermum dissitiflorum Schlecht.
Uromyces Eriospermi Kalchbr. & Cooke

Eriospermum graminifolium Duthie
Uromyces Eriospermi Kalchbr. & Cooke

Eriospermum lanceaefolium Jacq.
Uromyces Eriospermi Kalchbr. & Cooke

Eriospermum latifolium Jacq.
Tubercinia Eriospermi Syd.

Eriospermum Mackenii Bkr.
Uromyces Eriospermi Kalchbr. & Cooke

Eriospermum parvifolium Jacq.
Uromyces Eriospermi Kalchbr. & Cooke

Eriospermum pubescens Jacq.
Uromyces Eriospermi Kalchbr. & Cooke
Tubercinia Eriospermi Syd.

Eriospermum spp. indet.
Uromyces Eriospermi Kalchbr. & Cooke
Tuburcinia Eriospermi Syd.

Eucomis punctata L'Hérit.
Ustilago Vaillanti Tul.
Septoria sp.

Eucomis sp. indet.
Puccinia amadelpha Syd.

Hartwegia comosa Nees
=Chlorophytum comosum Bkr.

Haworthia altilinea Haw.
Uromyces Aloes (Cooke) Magn.

Haworthia Reinwardtii Haw.
Uromyces Aloes (Cooke) Magn.

Haworthia retusia (Linn.) Haw.
Uromyces Aloes (Cooke) Magn.

Haworthia sp.
Uromyces Aloes (Cooke) Magn.

Kniphofia aloöides Mönch.
? Phyllachora Kniphofiae (Kalchbr. & Cooke) Sacc.

Kniphofia sp. indet.
Fusarium moniliforme Sheld. var. subglutinans Wollenw.

Lachenalia orchidioides Ait.
Uromyces Lachenaliae Doidge

Lachenalia pendula Ait.
Uromyces Lachenaliae Doidge

Lachenalia reflexa Thunb.
Uromyces Lachenaliae Doidge

Lachenalia tricolor Thunb. var. **Nelsoni** Bakr.
Uromyces Lachenaliae Doidge

Lachenalia unicolor Jacq.
Uromyces Lachenaliae Doidge

Lachenalia unifolia Jacq.
Uromyces Lachenaliae Doidge

Lachenalia spp. indet.
Uromyces Lachenaliae Doidge

Lilium philippense Bkr.
Phytophthora parasitica Dast.

Massonia latifolia Linn. f.
Uromyces Massoniae Doidge

Ornithogalum altissimum Linn.
=Urginea altissima Bkr.

Ornithogalum aureum Curt.
Puccinia Ornithogali-thyrsoidis Diet.

Ornithogalum barbatum Jacq.
Uromyces Maireanus Syd.

Ornithogalum Ecklonii Schl.
Aecidium Ornithogaleum Bubak

Ornithogalum flavovirens Bkr.
Uromyces Maireanus Syd.

Ornithogalum lacteum Jacq.
Ustilago Peglerae Bubak & Syd.
Septoria Ornithogali Pass.

Ornithogalum pilosum Linn. f.
Puccinia Ornithogali-thyrsoidis Diet.

Ornithogalum Roodeae Phill.
Uromyces Maireanus Syd.

Ornithogalum thyrsoides Jacq.
Puccinia Ornithogali-thyrsoidis Diet.
Heterosporium Ornithogali Klotzsch

Ornithogalum virens Lindl.
Puccinia Ornithogali-thyrsoidis Diet.

Ornithogalum sp. indet.
Uromyces Maireanus Syd.

Ornithoglossum glaucum Salisb.
Urocystis Ornithoglossii (Syd.) Zundel

Polyxena ensifolia (Thunb.) Schonl.
Uromyces Lachenaliae Doidge

Scilla Kraussii Bkr.
Ustilago Vaillanti Tul.

Scilla natalensis Planch.
Ustilago Vaillanti Tul.

Scilla prasina Bkr.

Uromyces circinalis Kalchbr. & Cooke

Scilla saturata Bkr.

Aecidium Doidgei Syd.

Scilla sp. indet.

Ustilago Vaillanti Tul.

Smilax Kraussiana Mesn.

Puccinia Kraussiana Cooke

Urginea altissima Bkr.

Puccinia Kalchbrenneriana de Toni
Uromyces saginatus Syd.
Phoma Ornithogali Thuem.

Urginea exuviata Steinn.

Uromyces stellenbossiensis v.d.Byl

Urginea spp. indet.

Uromyces saginatus Syd.
Aecidium Urgineae P. Henn. & Evans

Liliaceae indet.

Uromyces Bylianus Doidge
Uromyces Krantzbergensis Doidge

AGAVACEAE.

Agave americana Linn.

Allantonectria miltina (Mont.) Weese
Diatrypella Agaves Syd.
Coniothyrina Agaves (Dur. & Mont.) Petr. & Syd.

Agave rigida Mill. var. *sisalana* Engelm.

=Agave sisalana Perr.

Agave sisalana Perr.

Colletotrichum Agaves Cav.
Macrosporium lanceolatum Mass.

Dracaena Hookeriana K. Koch

Morenoina Dracaenae Doidge

Dracaena sp. indet.

Uromyces Holubii Doidge

Furcraea gigantea Vent.
Melanconium Fourcroyae Syd.

Phormium tenax Forsk.
Glomerella phacidiomorpha (Ces.) Petr.
Fusarium oxysporum Schlecht.

Sanseviera zeylanica Willd.
Gloeosporium Sansevierae Verw. & du Pless.

Sanseviera Sp. indet.
Septogloeum concentricum Syd.

HAEMODORACEAE.

Pauridia hypoxidoides Harv.
Puccinia stellenboschiana v.d.Byl

AMARYLLIDACEAE.

Amaryllis Belladonna Linn.
Botrytis cinerea Pers.

Brunswigia Cooperi Bkr.
? Aecidium Brunswigiae P. Henn.

Brunswigia sp. indet.
Aecidium Brunswigiae P. Henn.

Clivia miniata Regel
Physalospora Cliviae Syd.

Crinum capense Herb.
=Crinum longifolium Thunb.

Crinum Forbesianum Herb.
Aecidium Crini Kalchbr.

Crinum longifolium (Linn.) Thunb.
Aecidium Crini Kalchbr.

Crinum Moorei Hk. f.
Aecidium Crini Kalchbr.

Crinum spp. indet.
Aecidium Crini Kalchbr.

Cyrtanthus angustifolium (Linn. f.) Ait.
Aecidium Crini Kalchbr.

Haemanthus coccineus Linn.
Uromyces badius Syd.

Haemanthus magnificus Herb.
Cercospora Haemanthi Kalchbr.

Haemanthus natalensis Pappe
Cercospora Haemanthi Kalchbr.

Haemanthus pumilio Jacq.
Uromyces badius Syd.

Haemanthus puniceus Linn.
Cercospora Haemanthi Kalchbr.

Haemanthus rotundifolius Gawl.
Uromyces badius Syd.

Haemanthus spp. indet.
Uromyces badius Kalchbr.

Hypoxis acuminata Bkr.
Puccinia Pole-Evansii Doidge

Hypoxis argentea Harv.
Puccinia Pole-Evansii Doidge

Hypoxis costata Bkr.
Puccinia Pole-Evansii Doidge
Urocystis Hypoxidis Thaxt.

Hypoxis Gerrardi Bkr.
Puccinia Pole-Evansii Doidge

Hypoxis latifolia Hk.
Uromyces Hypoxidis Cooke

Hypoxis oligotricha Bkr.
Uromyces Hypoxidis Cooke

Hypoxis rigidula Bkr.
Puccinia Pole-Evansii Doidge

Hypoxis villosa Linn. f.
Uromyces Hypoxidis Cooke

Hypoxis spp. mdet.
Puccinia Pole-Evansii Doidge
Uromyces Hypoxidis Cooke

Ianthe aquatica (Linn. f.) Williams
Puccinia stellenboschiana v.d.Byl

Ianthe flaccida Nel
Puccinia stellenboschiana v.d.Byl

Nerine sarniensis (Linn.) Herb.
Stagonospora nerinicola Dipp.

DIOSCORACEAE.

Dioscorea malifolia Bkr.
Phyllosticta Dioscoreae Cooke

IRIDACEAE.

Acidanthera exasapa Bkr.
=Engysiphon exscapus (Thunb.) Lewis

Acidanthera pallida Pax
=Tritonia pallida Ker.

Anapalina revoluta N.E.Br.
Uromyces Antholyzae Syd.

Antholyza aethiopica Linn,
=Pentamenes aethiopica (Linn.) Phill.

Antholyza nervosa Thunb.
=Anapalina revoluta N.E.Br.

? **Antholyza** sp. indet.
Uromyces Antholyzae Syd.

Aristea capitata Ker.
Puccinia dehiscens Syd.

Aristea corymbosa Benth.
=Nivenia corymbosa (Ker.) Bkr.

Aristea Schizolaena Harv.
? Puccinia dehiscens Syd.

Aristea sp. indet.
Puccinia dehiscens Syd.

Babiana disticha Ker.
Uromyces Gladioli P. Henn.

Babiana stricta Ker.
Uromyces Gladioli P. Henn.

Bobartia spathacea Ker.
Didymosphaeria spatharum Wint.
Hendersonia sparsa Wint.

Dierama pendulum Bkr.
Puccinia Dieramae Syd.
Uromyces Dieramatis Doidge

Dierama pulcherrimum Bkr.
Uromyces Dieramatis Doidge

Dierama spp. indet.
Puccinia Dieramae Syd.
Uromyces Dieramatis Doidge

Engysiphon exscapus (Thunb.) Lewis
Uromyces Ixiae (Lév.) Wint.

Ferraria viscaria Schinz
Aecidium clarum Syd.

Ferraria sp. indet.
Uromyces Ferrariae Doidge

Freesia spp. indet.
Uromyces Ecklonii Bubak
Uromyces Freesiae Bubak
Fusarium bulbigenum Cooke & Mass.

Geissorhiza imbricata (de la R.) Ker.
Uromyces Gladioli P. Henn.

Geissorhiza rupestris Schlecht.
Uromyces Gladioli P. Henn.

Geissorhiza secunda Ker.
Uromyces Gladioli P. Henn.

Gladiolus angustus Linn.
Uromyces Gladioli P. Henn.

Gladiolus blandus Ait.
Uromyces Gladioli P. Henn.

Gladiolus cochleatus Swett
Uromyces Gladioli P. Henn.

Gladiolus crassifolius Bkr.
Uromyces Gladioli P. Henn.

Gladiolus cuspidatus Jacq.
Uromyces Gladioli P. Henn.

Gladiolus debilis Ker.
Uromyces Gladioli P. Henn.

Gladiolus Ecklonii Lehm.
? Uromyces Gladioli P. Henn.

Gladiolus formosus Klatt
Uromyces Gladioli P. Henn.

Gladiolus hirsutus Jacq.
Uromyces Gladioli P. Henn.

Gladiolus Ludwigii Pappe
Puccinia McCleanii Doidge

Gladiolus orchidiflorus Andr.
Uromyces Gladioli P. Henn.

Gladiolus psittacinus Hk.
Uromyces transversalis (Thuem.) Wint.

Gladiolus recurvus Linn.
Uromyces Gladioli P. Henn.

Gladiolus Saundersii Kk. f.
Uromyces transversalis (Thuem.) Wint.

Gladiolus spp. indet.
Uromyces Gladioli P. Henn.
Uromyces transversalis (Thuem.) Wint.
Urocystis Gladioli Wernham
Septoria Gladioli Pass.
Botrytis cinerea Pers.
Penicillium Gladioli Machacek
Macrosporium commune Rabenh.
Fusarium bulbigenum Cooke & Mass.

Fusarium oxysporum Schlecht. var. Gladioli Massey
Fusarium Solani (Mart.) Appel & Wollenw.
Epicoccum nigrum Link

Homeria Breyniana (Linn.) Lewis
Puccinia Moraeae P. Henn.

Homeria Breyniana (Linn.) Lewis var. **ochroleuca** Salisb.
Uredo Moraeae Kalchbr.
*R*homa micrethecia Thuem.

Homeria cillina Vent.
=Homeria Bryeniana (Linn.) Lewis

Homeria collina var. *ochroleuca* Salisb.
=Homeria Breyniana var. ochroleuca Salisb.

Homeria pallida Bkr.
Puccinia Moraeae P. Henn.

Homeria spp. indet.
Puccinia Moraeae P. Henn.
Uredo Homeriae Kalchbr.

Iris germanica Linn.
Puccinia Iridis (DC) Wallr.
Heterosporium gracile (Wallr.) Sacc.

Iris sp. indet.
Macrosporium Iridis Cooke & Ell.

Ixia furcata Ker.
Uromyces Ixiae (Lév.) Wint.

Ixia leucantha Jacq.
Uromyces Ixiae (Lév.) Wint.

Ixia lutea Bkr.
Uromyces Ixiae (Lév.) Wint.

Ixia maculata Thunb.
Uromyces Ixiae (Lév.) Wint.

Ixia paniculata Del.
Uromyces Ixiae (Lév.) Wint.

Ixia patens Ait.
Uromyces Ixiae (Lév.) Wint.

Ixia polystachya Linn.
Uromyces Ixiae (Lév.) Wint.

Ixia scariosa Thunb. var. **longifolia** Bkr.
Uromyces Ixiae (Lév.) Wint.

Ixia scillaris Linn.
=Tritonia scillaris Bkr.

Ixia splendida Lewis
Uromyces Ixiae (Lév.) Wint.

Lapeyrousia corymbosa Ker.
Uromyces Ixiae (Lév.) Wint.

Lapeyrousia cruenta Bkr.
Uromyces Anomathecae Cooke

Lapeyrousia delagoënsis Bkr.
Uromyces Ixiae (Lév.) Wint.

Lapeyrousia grandiflora Bkr.
Uromyces Anomathecae Cooke

Melasphaerula graminea Ker.
Uromyces Ixiae (Lév.) Wint.

Moraea edulis Ker.
? Puccinia Moraeae P. Henn.

Moraea grandiflora Eckl.
=Homeria Breyniana (Linn.) Lewis var. ochroleuca Salisb.

Moraea spathulata Klatt.
Uromyces Moraeae Syd.

Moraea ramosa Ker.
? Uromyces Gladioli P. Henn.

Moraea tricuspis Ker.
Puccinia capensis Diet.

Nivenia corymbosa (Ker.) Bkr.
Puccinia dehiscens Syd.

Pentamenes aethiopica (Linn.) Phill.
Uromyces kentaniensis Doidge
Aecidium Antholyzae Bubak

Romulea rosea Ecklon
Uromyces Gladioli P. Henn.

Romulea sp. indet.
Uromyces Gladioli P. Henn.

Sparaxis bulbifera Ker.
Uromyces Ixiae (Lév.) Wint.

Sparaxis grandiflora Ker.
Uromyces Ixiae (Lév.) Wint.

Sparaxis lineata Sweet.
=Sparaxis tricolor Ker.

Sparaxis tricolor Ker.
Uromyces Sparaxidis Syd.

Sparaxis sp. indet.
Uromyces Sparaxidis Syd.

Tritonia lineata Ker.
Uromyces transversalis (Thuem.) Wint.

Tritonia pallida Ker.
Uromyces Zeyheri Bubák

Tritonia scillaris Baker
Uromyces Zeyheri Bubák

Tritonia securigera Ker.
Uromyces transversalis (Thuem.) Wint.

Tritonia squalida Ker.
Uromyces transversalis (Thuem.) Wint.

Tritonia sp. indet.
Uromyces transversalis (Thuem.) Wint.

Watsonia angusta Ker.
Uromyces transversalis (Thuem.) Wint.

Watsonia densiflora Bkr.

Uromyces transversalis (Thuem.) Wint.

Watsonia meriana Müll.

Uromyces transversalis (Thuem.) Wint.

Watsonia rosea Ker. var. **alba.**

Pestalotia Watsoniae Verw. & Dipp.

Watsonia sp. indet.

Uromyces transversalis (Thuem.) Wint.

Iridaceae indet.

Puccinia Gladioli-crassifolii Doidge

MUSACEAE.

Musa Cavendishii Lamb

Gloeosporium Musarum Cooke & Mass.
Fusarium oxysporum Schlecht. var. cubense (E.F.Sm.) Wollenw.

Musa paradisiaca Linn. var. **sapientum** Kuntze

Rhizopus nigricans Ehrhenb. (fruit rot)
Pythium deBaryanum Hesse
Glomerella cingulata (Stonem.) Spauld. & v. Schrenk
Macrophomina Phaseoli (Maubl.) Ashby
Gloeosporium musarum Cooke & Mass.
Stachylidium Theobromae Turcz.
Fusarium moniliforme Sheld.
Fusarium oxysporum Schlecht. var. cubense (E.F.Sm.) Wollenw.
Fusarium semitectum Berk. & Rav. var. majus Wollenw.
Fusarium Scirpi Lamb. & Faurt.

Musa spp. indet.

Armillaria mellea (Vahl ex Fr.) Quél.
Thielaviopsis paradoxa (de Seyn.) v. Höhn.
Cordana Musae (Zimm.) v. Höhn.
Cercospora Musae Zimm.
Fusarium moniliforme Sheld. var. subglutinans Wollenw.
Fusarium oxysporum Schlecht. var. cubense (E.F.Sm.) Wollenw.

Strelitzia angustifolia Dryand

=Strelitzia parvifolia Dryand

Strelitzia augusta Thunb.

Phyllachora Strelitziae (Cooke) Sacc.

Strelitzia parvifolia Dryand

Pestalozzia Zahlbruckneriana P. Henn.

Strelitzia sp. indet.
Solenia minima Cooke & Phill.

ORCHIDACEAE.

Ansellia africana Lindl.
Asterina raripoda Doidge

Bifrenaria Harrisoniae Reichb.
Colletotrichum Orchidearum Allesch.

Catasetum macrocarpum Rich.
Colletotrichum Orchidearum Allesch.

Catasetum maculatum Kunth
Colletotrichum Orchidearum Allesch.

Cattleya Alfredi Hort.
Colletotrichum Orchidearum Allesch.

Cattleya Imperatrix Hotr.
Colletotrichum Orchidearum Allesch.

Cattleya Rembrandt Hort.
Colletotrichum Orchidearum Allesch.

Cattleya Suzanne Hort.
Colletotrichum Orchidearum Allesch

Cattleya Thayeriana Hort.
Colletotrichum Orchidearum Allesch.

Cattleya sp. indet.
Colletotrichum Orchidearum Allesch.

Coelogyne cristata Lindl.
Gloeosporium affine Sacc.

Corycium nigrescens Sond.
Aecidium Corycii Doidge

Cyrtopodium punctatum Lindl.
Colletotrichum Orchidearum Allesch.

Disa micrantha Bolus
=Monadenia micrantha Lindl.

Gongora galeata Reichb.
Gloeosporium affine Sacc.

Monadenia comosa Reichb. f.
Puccinia aurea Wint.

Monadenia micrantha Lindl.
Uredo Disae v.d. Byl

Oncidium concolor Hk.
Botrodiplodia Oncidii (P. Henn.) Petr. & Syd.

Oncidium Lanceanum Lindl.
Uredo Oncidii P. Henn.

Ornithidium densum Reichb.
Colletotrichum Orchidearum Allesch.

Satyrium carneum R. Br.
Puccinia Satyrii Syd.

Satyrium coriifolium Sweet
Uredo Satyrii Mass.

Satyrium neglectum Schlecht.
Puccinia Satyrii Syd.

Scuticaria Hadwenii Hort. ex Planch.
Macrophoma cattleyicola P. Henn.

Stanhopea oculata Lindl.
Phyllosticta Stanhopeae Allesch.

Vanda tricolor lindl.
Trichosphaeria Vandae Verw. & du Pless.

Vanilla planifolia Andr.
Pyrenochaeta Vanilla Verw. & du Pless.

DICOTYLEDONEAE.

PIPERACEAE.

Piper capensis Linn. f.
Amazonia asterinoides (Wint.) Theiss.

Piper sp. indet.
Xylosorium Piperii Zundel

Populus alba Linn.

Melampsora aecidioides Schroet.
Stereum purpureum (Pers. ex Fr.) Fr.
Marssonina Populi Magn.

Populus alba Linn. var. **pyramidalis** Bunge

Taphrina aurea Sadeb.

Populus balsamifera Linn.

Valsa sordida Nitschke
Cytospora chrysosperma (Pers.) Fr.

Populus canescens Sm.

Valsa sordida Nitschke
Cytospora chrysosperma (Pers.) Fr.
Marssonina Populi Magn.

Populus nigra Linn. var. **italica** du Roi

Taphrina aurea Sadeb.

Populus spp. indet.

Taphrina aurea Sadeb.
Nectria sp.
Diatrypella pretoriensis Doidge
Valsa sordida Nitschke
Didymosphaeria populina Vuill.
Melampsora aecidioides Schroet.
Stereum umbrinum Berk. & Curt.
Ganoderma lucidum (Leyss. ex Fr.) Fr.
Polyporus conchatus Lloyd
Polystictus biformis (Klotzsch) Fr.
Trametes Proteus (Berk.) Fr.
Trametes trabea (Pers. ex Fr.) Bres.
Crepidotis mollis (Schaeff. ex Fr.) uel.
Claudopus proteus Kalchbr.
Schizophyllum commune Fr.
Cytospora chrysosperma (Pers.) Fr.
Marssonina Populi Magn.
Macrosporium sp.
Stilbum cinnabarinum Mont.

Salix babylonica Linn.

Clitocybe sp.

Salix capensis Thunb.

Valsa salicina (Pers.) Fr.
Melampsora vitellinae Thuem.

Salix spp. indet.

Valsa salicina (Pers.) Fr.

Hypoxylon mediterraneum (deNot.) Miller
Stereum spadiceum Fr.
Fomes badius (Berk.) Cooke
Fomes salicinus (Pers. ex Fr.) Kickx.
Ganoderma applanatum (Pers.) Pat.
Ganoderma fulvellum Bres.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Lenzites Palisoti Fr.
Polyporus ochroporus v. d. Vyl
Polystictus occidentalis (Klotzsch) Fr.
Polystictus polyzonus (Pers.) Cooke
Polystictus sanguineus (linn. ex Fr.) Fr.
Polystictus velutinus (Pers. ex Fr.) Cooke
Polystictus versicolor (Linn. ex Fr.) Fr.
Pleurotus ostreatus (Jacq. ex Fr.) uel.

MYRICACEAE.

Myrica conifera Burm. f.

Stichodothis disciformis (Wint.) Petr.
Stichospora disciformis Petr.

Myrica cordifolia Linn.

Stichodothis disciformis (Wint.) Petr.
Cryptomyces Myricae (Mont.) Sacc.
Gloeosporium Myricae Dipp.

Myrica linearis C.DC.

Stichodothis disciformis (Wint.) Petr.

Myrica quercifolia Linn.

Stichodothis disciformis (Wint.) Petr.

Myrica sp. indet.

Stichodothis disciformis (Wint.) Petr.

JUGLANDACEAE.

Carya Pecan Engl. & Graebn.

Cercospora Caryae Chupp & Doidge
Cercospora fusca Rand
Stilbum aurantio-cinnabarinum Speg.

Juglans regia Linn.

Gloeosporium epicarpii Thuem.

Juglans spp. indet.

Schizophyllum commune Fr.
Cylindrosporium Juglandes Wolf
Marssonina Juglandis (Lib.) Magn.

BETULACEAE.

Corylus Avellana Linn.

Aspergillus glaucus Link
Penicillium glaucum Link
Trichothecium Roseum Link

FAGACEAE.

Castanea dentata Borkh.

Cylindrosporium castanicolum (Desm.) Berl

Castanea sativa Mill.

Cylindrosporium castanicolum (Desm.) Berl.

Quercus Robur Linn.

Ustulina vulgaris Tul.
Microstroma album (Desm.) Sacc.
Stereum hirsutum (Willd. ex Fr.) Fr.
Polyporus sulphureus (Bull. ex Fr.) Fr.

Quercus sessiliflora Salisb.

Microstroma album (Desm.) Sacc.

Quercus spp. indet.

Pseudovalsa longipes (Tul.) Sacc.
Hypoxylon mediterraneum (deNot.) Miller
Exidea purpureo-cinerea MacOwan & Kalchbr.
Hormomyces aurantiacus Bon.
Microstroma album (Desm.) Sacc.
Stereum hirsutum (Willd. ex Fr.) Fr.
Stereum Kalchbrenneri Sacc.
Steruem purpureum (Pers, ex Fr.) Fr,
Stereum vellereum Berk.
Daedalea quercina (Linn. ex Fr.) Fr.
Fomes annosus (Fr.) Gillet
Ganoderma applanatum (Pers.) Pat.
Ganoderm lucidum (Leyss. ex Fr.) Karst.
Lenzites baetulina (Linn. ex Fr.) Fr.
Polyporus adustus (Willd. ex Fr.) Fr.
Polyporus gilvus (Schw.) Fr.
Polyporus sulphureus (Bull. ex Fr.) Fr.
Polystictus sanguineus (Linn. ex Fr.)Fr.
Polystictus subiculoides Lloyd
Polystictus zonatus Fr.
Trametes proteus (Berk.) Fr.
Trametes suaveolens (Linn. ex Fr.) Fr.
Armillaria mellea (Vahl ex Fr.) uel.
Mycena galericulata (Scop. ex Fr.) S. F. Gray
Schizophy commune Fr.
Coryneum Kunzei Corda
Pestalotia quercina Guba
Oidium quercinum Thuem.

ULMACEAE.

Celtis Kraussiana Bernh.

Uncinula polychaeta Berk. & Curt. ex Ellis
Daldinia Eschscholzii (Ehrh. ex Fr.) Rehm
Stereum fasciatum (Schw.) Fr.
Daedalea Eatoni Verk.
Daedalea MacOwani Kalchbr.
Fomes connatus (Fr.) Gillet
Ganoderma applanatum (Pers.) Pat.
Ganoderma colossum (Fr.) Bres.
Lenzites betulina (Linn. ex Fr.) Fr.
Lenzites Palisoti Fr.
Polyporus Patuoillardii (Rick.) Theiss.
Polystictus zonatus Fr.
Trametes Meyenii (Klotzsch) ? Lloyd
Trametes suaveolens (Linn. ex Fr.) Fr.
Trametes subflava Lloyd
Schizophyllum commune Fr.

Sponia guineensis Planch.

=Trema guineensis (Schum.) Ficalho

Trema guineensis (Schum.) Ficalho

Fomes yucatanensis (Murr.) Sacc.
Oothecium stylosporum (Cooke) Doidge
Cercospora Tremae (Stev. & Solh.) Chupp

MORACEAE.

Artocarpus integra Merr.

Rhizopus ? Artocarpi (Berk. & Curt.) Rac.

Cannabis sativa Linn.

Oidium sp.

Ficus Burkei Miq.

Phyllachora nervisequens (Lingelsh.) Petr.

Ficus Burtt-Davyi Hutch.

Phyllachora nervisequens (Lingelsh.) Petr.

Ficus capensis Thnb.

Phyllachora amaniensis P. Henn.
Phyllachora grammica P. Henn.
Phyllachora Howardiana Petr.
Phyllachora nervisequens (Lingelsh) Petr.

Ficus carica Linn.

Saccharomyces sp.
Phyllachora Howardiana Petr.
Cerotelium Fici (Cast.) Arth.

Phoma Fici-caricae Verw. & du Pless.
Phomopsis cinerescens (Sacc.) Trav.
Phyllosticta ficicola Pat.
Colletotrichum Carica Stev. & Hall
Aspergillus sp.
Botrytis cinerea Pers.
Cercospora bolleana (Thuem.) Speg.
Fusarium moniliforme Sheld.

Ficus gnaphalocarpa A. Rich

Phyllachora ?repens (Corda(Sacc.

Ficus ingens Miq.

Phyllachora ?repens (Corda) Sacc.

Ficus mallatocarpus Warb.

Phyllachora ficuum Niessl.

Ficus natalensis Hochst.

Phyllachora nervisequens (Lingelsh) Petr.

Ficus Petersii Warb.

Uncinula aspera L oidge

Ficus Pretoriae Burtt Davy

Phyllachora Pretoriae Doidge
Cerotelium Fici (Cast.) Arth.

Ficus Sycomorus Linn.

Phyllachora ficuum Niessl
Cercospora Fici Heald & Wolf

Ficus trachyphyllus Fenzl

=Ficus gnaphalocarpa A. Rich

Ficus spp indet..

Phyllachora nervisequens (Lingelsh) Petr.
Trametes hydnoides (Seart ex Fr.) Fr.
? Trametes lactinea (Berk.) Fr.
Trametes Proteus (Berk.) Fr.
Schizophyllum commune Fr.
Cercospora bolleana (Theum.) Speg.
Tubercularia Fici Edgert.
Silbum caespitosum Welw. & Curr.

Morus alba Linn.

Daedalea biennis (Bull ex Fr.) Fr.
Septogloeum Mori (Lev.) Bri. & Cav.

Morus nigra Linn.

Septogloeum Mori (Lev.) Bri. & Cav.

Morus spp. indet.

Stereum Schomburgkii Berk.
Ovulariopsis moricola Del.
Septogloeum Mori (Lev.) Bri. & Cav.

URTICACEAE.

Fleurya sp. indet.

Asterina Fleuryae Doidge

Pouzolzia hypoleuca Wedd.

Cercospora Pouzolziae Syd.

Urtica Lobulata E. Mey.

Ophiobolus Urticae (Rabenh.) Sacc.

Urtica Meyeri Wedd.

=Urtica lobulata E. Mey.

PROTEACEAE.

Brabejum stellatifolium Linn.

Capnodium fuligo Berk. & Desm.
Phyllosticta Owaniana Wint.
Periconiella velutina (Wint.) Sacc.

Faurea McNaughtonii Phill.

Hysterostoma Faureae Doidge

Faurea saligna Harv.

Didymosporium latum Syd.
Stilbospora Faureae Syd.

Faurea speciosa Welw.

Brachysporium Faureae P. Henn.
Clasterosporium densum Syd.
Cercospora Faureae Chupp & Doidge

Grevillea robusta Cunn.

Polyporus gilvus (Schw.) Fr.
Polystictus subiculoides Lloyd
Armillaria mellea (Vahl ex Fr.) Fr.

Grevillea sp. indet.

Trametes albotexta Lloyd

Hakea sp. indet.

Pythium ultimum Trow

Leucadendron argenteum R. Br.

Schizophyllum commune Fr.
Passalora Protearum Kalchbr. & Cooke
Cercospora Protearum Cooke

Leucadendron spp. indet.

Aphysa senniana (Sacc.) Doidge
Entopeltis interrupta (Wint.) v. Höhn.

Leucospermum conocarpum R. Br.

Entopeltis interrupta (Wint.) v. Höhn.
Coniothecium MacOwani Sacc.
Cercosporam Protearum Cooke

Protea abyssinica Willd.

Teratosphaeria fibrillosa Syd.
Leptosphaeria Protearum Syd.

Protea aculis Thunb.

Aphysa senniana (Sacc.) Doidge
Phyllachora Proteae Wakef.

Protea angolensis Welw.

Coniothecium MacOwani Sacc.

Protea argentea Linn.

=Leucadendron argenteum R. Br.

Protea barbigera Meisn.

Leptosphaeria Protearum Syd.
Oligostroma maculiformis (Wint.) Doidge

Protea caffra Meisn.

Aphysa senniana (Sacc.) Doidge
Teratosphaeria fibrillosa Syd.
Oligostroma maculiformis (Wint.) Doidge
Didymosporium congestum Syd.

Protea cynaroides Linn.

Entopeltis interrupta (Wint.) v. Höhn.
Leptosphaeria Protearum Syd.
Oligostroma maculiformis (Wint.) Doidge

Protea Flanagani Phill.

Oligostroma maculiformis (Wint.) Doidge
Aphysa senniana (Sacc.) Doidge

Protea grandiflora Thunb.

Oligostroma maculiformis (Wint.) Doidge
Teratosphaeria fibrillosa Syd.
Coniothecium MacOwanii Sacc.

Protea lepidocarpodendron Linn.

Leptosphaeria Protearum Syd.
Aphysa senniana (Sacc.) Doidge
Entopeltis interrupta (Wint.) v. Höhn.

Protea lepidocarpon Sims

=Protea lepidocarpodendron Linn.

Protea melaleuca R. Br

=Protea lepidocarpodendron Linn.

Protea mellifera Thunb.

Phyllachora Proteae Wakef.
Leptosphaeria Protearum Syd.
Aphysa senniana (Sacc.) Doidge

Protea neriifolia R. Br.

Oligostroma maculiformis (Wint.) Doidge

Protea pulchella Andr.

Aphysa senniana (Sacc.) Doidge

Protea Rouppelliae Meisn.

Oligostroma maculiformis (Wint.) Doidge

Protea scabra R. Br.

Aphysa senniana (Sacc.) Doidge

Protea spp. indet.

Oligostroma maculiformis (Wint.) Doidge
Leptosphaeria Protearum Syd.
Aphysa senniana (Sacc.) Doidge

LORANTHACEAE.

Loranthus Dregei Eckl. & Zeyr.

Mycosphaerella Ldranthi Syd.
Asterina loranthicola Syd.
Aecidium Cookeanum de Toni

Loranthus Zeyheri Harv.

Aecidium Cookeanum de Toni

Loranthus spp. indet.

Asterina loranthicola Syd.
Aecidium Cookeanum de Toni
Pestalotia sp.

Viscum anceps E. Mey.

Meliola arcuata Doidge

Viscum nervosum Hochst.

Clypeosphaeria natalensis Doidge
Aecidium Cookeanum de Toni

Viscum obscurum Thunb.

Asterostomella Visci Doidge

SANTALACEAE.

Colpoon compressum Berg.

=Osyris abyssinica Hochst.

Osyridicarpus natalensis A. DC.

Meliola bifida Cooke
Asterina polythyria Doidge
Puccinia Stonemanniae Syd. & Evans

Osyris abyssinica Hochst.

Meliola Osyridis Doidge
Dimerina Osyridis (Wint.) Theiss.
Diplochorella amphimelaena (Mont.) Theiss. & Syd.
Paranectria parasitica Wint.

Osyris compressa A. DC.

=Osyris abyssinica Hochst.
(fide Burtt Davy in Transvaal Flora, the Cape species is *Osyris compressa* and is distinct from *O. abyssinica*).

Rhoiocarpos capensis A. DC.

Meliola Osyridis Doidge

Thesium hystrix A. W. Hill

Puccinia Stonemanniae Syd. & Evans

Thesium impeditum A. W. Hull

Puccinia Stonemanniae Syd. & Evans

Thesium strictum Berg.

Puccinia Stonemanniae Dyd. & Evans

Thesium triflorum Thunb.

Puccinia Stonemanniae Syd. & Evans

Thesium spp. indet.

Puccinia Stonemanniae Syd & Evans.

BALANOPHORACEAE.

Sarcophyte sanguinea Sparm.

Nectria leocarpoides Kalchbr. & Cooke

POLYGONACEAE.

Polygonum aviculare Linn.

Peronospora Rumicis Corda
Uromyces Polygoni (Pers.) Fuck.
Ovularia bistortae (Fuck.) Sacc.

Polygonum lapathifolium Linn.

Septoria Polygoni-lapathifolii v. d. Byl

Polygonum lapathifolium Linn. var. **glabrum** Burtt Davy

Melanopsichium austro-americanum (Speg.) G. Beck

Polygonum tomentosum Willd.

Puccinia Polygoni-amphibii Pers.
Uromyces Polygoni (Pers.) Fuck.
Cercospora ? Persicariae Yam.

Rheum Rhaponticum Linn.

Phytophthora parasitica Dast.
Pythium ultimum Trow
Puccinia Phragmitis (Schum.) Koern. (I)
Phyllosticta straminella Bres.
Fusarium oxysporum Schlecht.
Fusarium Solani Mart. var. Martii Appel & Wollenw. f. l. Wollenw.
Rhizoctonia sp.

Rumex acetosella Linn.

Puccinia Phragmitis (Schum.) Koern. (I)

Rumex conglomeratus Murr.

Puccinia Phragmitis (Schum.) Koern. (I)
Phyllosticta Rumicis Kalchbr.

Rumex crispus Linn.

Uromyces Rumicis (Schum.) Wint.

Rumex Ecklonianus Meisn.

Puccinia Phragmitis (Schum.) Koern (I)

Rumex nepalensis Spreng.

Puccinia Phragmitis (Schum.) Koern. (I)
Uromyces Rumicis (Schum.) Wint.
Ramularia Rumicis Kalchbr. & Cooke

Rumex obtusifolius Linn. var. *capensis* MacOwan

=Rumex nepalensis Spreng.

Rumex Woodii N. E. Br.

Uromyces Rumicis (Schum.) Wint.

Rumex spp. indet.

Puccinia Phragmitis (Schum.) Koern. (I)
Patuoillardia Rumicis Verw. & du Pless.

CHENOPODIACEAE.

Beta vulgaris Linn.

Uromyces Betae (Pers.) Lev.
Phoma Betae Frank
Phyllosticta Betae Oud.
Actinomyces scabies (Thaxt.) Gussow
Cercospora beticola Sacc.
Macrosporium cladosporioides Desm.
Rhizoctonia sp.
Sclerotium Rolfsii Sacc.

Beta vulgaris Linn. var. **cicla** Linn.

Cercospora beticola Sacc.

Caroxylon Salsola Thunb.

=Salsola aphylla Linn. f.

Chenopodium ambrosioides Linn.

Peronospora effusa (Grev.) Rabenh.
Ovulariopsis sp.

Chenopodium foetidum Schrad.

Peronospora effusa (Grev.) Rabenh.

Chenopodium murale Linn.

Peronospora effusa (Grev.) Rabenh.
Septoria Atriplicis (West.) Fuck.

Chenopodium spp. indet.

Peronospora effusa (Grev.) Rabenh.

Salsola aphylla Linn. f.
Cystopus Schlechteri Syd.

Spinacia oleracea Linn.
Peronospora effusa (Grev.) Rabenh.

Chenopodiaceae indet.
Septoria Chenopodii West.

AMARANTACEAE.

Achyranthes aspera Linn.
Cystopus Bliti de Bary

Achyranthes sp. indet.
Cystopus Bliti de Bary

Amaranthus angustifolius Lam.
Cystopus Bliti de Bary

Amaranthus tricolor Linn.
Pythium aphanidermatum (Eds.) Fitz.

Celosia argentea Linn.
Pythium aphamidermatum (Eds.) Fitz.

Cyathula globulifera Moq.
Cystopus Bliti de Barry

Gomphrena decumbens Jacq. var. **genuina** Stuchlik
Cercospora pretoriensis Chupp & Doidge

Gomphrena globosa (Flor. Cap. non Linn.)
=Gomphrena decumbens Jacq. var. genuina Stuchlik

PHYTOLACCACEAE.

Gisekia pharnaceoides Linn.
Exobasidium Giseckiae Allesch.

Phytolacca octandra Linn.
Cladosporium herbarum Link

AIZOACEAE.

Aizoon rigidum Linn.
Cystopus austro-africanus (Syd.) Sacc. & Trott.

Delosperma herbeum N.E.Br.
Puccinia Mesembryanthemi MacOwan

Delosperma spp. indet.
Pythium ultimum Trow
Puccinia Mesembryanthemi MacOwan

Dinteranthus microspermus (Dint. & Derenb.) Schwant.
Pythium ultimum Trow.

Fenestraria aurantiaca N.E.Br.
Pythium ultimum Trow

Galenia africana Linn.
Puccinia Galeniae Diet.

Galenia sarcophylla Fenzl.
Puccinia Galeniae Diet.

Mesembryanthemum micranthum Haw.
=Psilocaulon parviflorum (Jacq.) L. Bolus

Mesembryeae spp. indet.
Peronospora Mesembryanthemi Verw.
Pythium ultimum Trow
Saccharomyces sp.
Fusarium avenaceum (Fr.) Sacc. f. l. Wollenw. & Reinking
Fusarium Equiseti (Corda) Sacc. var. bullatum (Sherb.) Woollenw.
Fusarium vasinfectum Atk. f.2. Wollenw. & Reinking

Psilocaulon granulicaule N. E. Br.
Puccinia Mesembryanthemi MacOwan

Psilocaulon parviflorum (Jacq.) L. Bolus
Puccinia Mesmbryanthemi MacOwan

Tetragonia arbuscula Fenzl.
Aecidium Tetragoniae Doidge

Tetragonia expansa Thunb.
Puccinia Tetragoniae McAlp. var. austro-africana Doidge

PORTULACACEAE.

Portulaca oleracea Linn.
Cystopus Portulacae de Bary

Portulacaria afra Jacq
Lentinus Zeyheri Berk.

Talinum caffrum (Thunb.) E. & Z.
Aecidium talinophilum Syd.)

Dianthus barbatus Linn.

Uromyces caryophyllinus (Schrank.) Wint.

Dianthus caryophyllus Linn.

Phytophthora cactorum (Leb. & Cohn) Schroet.
Pleospora Dianthi deNot.
Uromyces caryophyllinus (Schrank) Wint.
Diplodia herbarum (Corda) Lev.
Phyllosticta Dianthi Desm.
Septoria Caryophylli Scalia
Septoria Dianthi Desm.
Pseudodiscosia Dianthi Höst. & Laub.
Alternaria Dianthi Stev. & Hall
Heterosporium echinylatum (Berk.) Cooke
Macrosporium nobile Vize
Fusarium bulbigenum Cooke & Mass. var. Lycopersici (Brushi) Wollenw. & Reinking
Fusarium culmorum (W. G. Sm.) Sacc.
Fusarium Dianthi Prill. & Delacr.
Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Fautr. var. acuminatum (Ell. & Everh.) Wollenw.
Fusarium semitectum Berk. & Rav. var. majus Wollenw.
Fusarium Solani (Mart.) Apepl & Wollenw.
Volutella Dianthi (Halst.) Atk.
Rhizoctonia Solani Kuhn.
Sclerotium Rolfsii Sacc.

Dianthus crenatus Thunb.

Uromyces caryophyllinus (Schrank) Wint.

Dianthus plumarius Linn.

Pythium ultimum Trow

Dianthus Zeyheri Sond.

Uromyces caryophyllinus (Schrank) Wint.

Dianthus spp. indet.

Uromyces caryophyllinus (Schrank) Wint.
Vermicularia herbarum West. f. Dianthi West.

Lychnis Viscaria Linn.

Fusarium Scirpi Lamb. & Fautr.

Silene capensis Otth.

Puccinia Behensis Otth.

Silene gallica Linn.

? Septoria Doehlii Syd.

Silene spp. indet.

Puccinia Behenis Otth.
Uromyces inaequialtus Lasch.

Spergula arvensis Linn.

Peronospora obovata Bon.

RANUNCULACEAE.

Aquilegia spp. indet.

? Erysiphe Aquilegiae DC.
Sclerotium Rolfsii Sacc.

Clematis brachiata Thunb.

Metasphaeria brachiata (Kalchbr. & Cooke) Sacc.
Coleosporium Clematidis Barcl.
Aecidium Clematidis-brachiatae Doidge
Aecidium Englerianum P. Henn. & Lindau
Diplodia Clematidea Sacc.

Clematis montana Buch.-Ham.

Macrophoma Clematidis Togn.

Clematis Oweniae Harv.

Coleosporium Clematidis Barcl.

Clematis spp. indet.

Aecidium Englerianum P. Henn. & Lindau

Delphinium ajacis (Wallr.) Rabenh.

Erysiphe nitida (Wallr.) Rabenh.

Delphinium cultorum Voss

Phytophthora parasitica Dast.
Pythium deBaryanum Hesse
Pythium ultimum Trow
Erysiphe nitida (Wallr.) Rabenh.
Phoma tingens Cooke & Mass.
Phyllosticta Delphinii Clem.
Fusarium Solani Mart. var. Martii Appel & Wollenw. f. l. Wollenw.
Sclerotium Delphinii Welch

Helleborus niger Linn.

Oidium sp.

Knowltonia glabricarpellata Huth.

? Erysiphe nitida (Wallr.) Rabenh.

Knowltonia vesicatoria Sims.

Meliola Knowltoniae Doidge
Septoria Knowltoniae Verw. & Dipp.

Ranunculus Cooperi Oliv.

Septoria Ranunculacearum Lév.

Ranunculus pinnatus Harv. non Poir.

=Ranunculus pubescens Thunb.

Ranunculus pubescens Thunb.

Fabraea litigiosa (Desm.) Sacc.
Aecidium ranunculacearum DC.

Ranunculus sp. indet.

Septoria ranunculacearum Lev.

MONIMIACEAE.

Xymalos monospora (Harv.) Baill.

Meliola rigida Doidge
Diatrype auristroma Doidge
Phragmothyriella parenchymatica Doidge
Trichopeltula kentaniensis Doidge
Clavaria Kunzei Fr.
Hydnum sp.
Fomes rimosus (Berk.) Cooke
Fomes Robinsoniae (Murr.) Sacc. & Trott.
Fomes robustus Karst.
Polystictus sanguineus (Linn. ex Fr.) Fr.

LAURACEAE.

Cinnamomum Camphora Nees & Ebrem.

Diatrypella pretoriensis Doidge
Valsaria Batesii Doidge

Cinnamomum zeylanicum Nees

Leptosphaeria Cinnamomi Shirai & Hara

Cryptocarya latifolia Sond.

Meliola Cryptocaryae Doidge

Cryptocarya transvaalensis Burtt Davy

Meliola Cryptocaryae Doidge
Meliola dactylipoda Syd.

Cryptocarya Woodii Engle.

Meliola Cryptocaryae Doidge.
Meliola dactylipoda Syd.
Asterina Woodiana Doidge

Cryptocarya spp. indet.

Meliola Cryptocaryae Doidge
Ganoderma applanatum (Pers.) Pat.

Octoea bullata E. Mey.

Xylaria polymorpha (Pers. ex Fr.) Grev.
Lembosia Phillipsii Doidge
Chaetopeltopsis sp.
Eubelonis Octoeae v. d. Byl
Fomes geotropus Cooke
Fomes hornodermus (Mont.) Cooke
Ganoderma applanatum (Pers.) Pat.
Lenzites betulina (Linn. ex Fr.) Fr.
Lenzites Palisoti Fr.
Trametes Meyenii (Klotzsch) ? Lloyd.
Coniothyrium insigne Syd.
Pestalotia Ocoteae Laughton
Fusarium sp.
Rhizoctonia sp.

Ocotea sp. indet.

Fomes geotropus Cooke

Persea americana Mill.

Rhizopus nigricans Ehrhenb.
Phytophthora Cinnamomi Rands
Pythium de Baryanum Hesse
Pythium ultimum Trow
Pythium vexans de Bary
Botryosphaeria Ribis (Tode ex Fr.) Gross . & Dugg. var. chromogena Shear, Stev. & Wilcox.
Glomerella congulata (Stonem.) Spauld. & v. Schrenk.
Melanops Perseae (Doidge) Petr.
Hexagona rigida Berk.
Polystictus occidentalis (Klotzsch) Fr.
Lentinus stuppeus Klotzsch
Phyllosticta Perseae Ell. & Mart.
Colletotrichum gloeosporioides Penz
Pestalotia versicolor Speg.
Sphaceloma Perseae Jenkins
Cylindrocarpon album (Sacc.) Wollenw. var crassum Wollenw.
Fusarium moniliforme Sheld.

PAPAVERACEAE.

Eschscholzia californica Cham.

Fusarium sp.

Papaver nudicalue Linn.

Pythium ultimum Trow
Erysiphe communis (Wallr.) Link
Heterosporium groenlandicum Allesch.

Heterosporium groenlandicum Allesch.
Fusarium Scirpi Lamb. & Fautr.
Ascochyta Papaveria Oud.

Papaver Rhoeas Linn.

Pythium oligandrum Drechsl.
Erysiphe communis (Wallr.) Link
Entyloma fuscum Schroet.
Fusarium Scirpi Lamb. & Fautr. var compactum Wollenw.

Papaver somniferum Linn.

Entyloma fuscum Schroet.

CRUCIFERAE.

Amoracia rusticana Gaertn.

Cystopus candidus de Bary

Brassica Napus Linn.

Cystopus candidus de Bary

Brassica nigra Koch

Cystopus candidus de Bary

Brassica oleracea Linn. var. **acephala** DC.

Plasmodiophora Brassicae Woron.
Peronospora parasitica (Pers.) Tul.
Phoma lingam Desm.

Brassica oleracea Linn. var. **botrytis** Linn.

Sclerotinia scelrotiorum (Lib.) de Bary
Mycosphaerella brassicaecola (de Bary) Lindau
Phoma lingam Desm.
Botrytis cinerea Pers.
Alternaria Brassicae (Berk.) Sacc.

Brassica oleracea Linn. var. **capitata** Linn.

Plasmodiophora Brassicae Woron.
Peronospora parasitica (Pers.) Tul.
Pythium oligandrum Drechsl.
Pythium ultimum Trow
Mycosphaerella brassicaecola (de Bary) Lindau
Pleospora herbarum (Pers.) Rabenh.
Phoma lingam Desm.
Phyllosticta Brassicae West.
Alternaria Brassicae (Berk.) Sacc.
Alternaria circinans (Berk. & Curt.) Bolle
Alternaria herculea (Ell. & Mart.) Elliott
Alternaria oleracea Milbraith
Fusarium moniliforme Sheld.
Fusarium moniliforme Sheld. var. subglutinians Wollenw.

Fusarium conglutinans Wollenw.
Fusarium oxysporum Schlecht. var. aurianticum (Link) Wollenw.
Rhizoctonia sp.

Brassica oleracea Linn. var. **gemmifera** DC.

Plasmodiophora Brassicae (Berk.) Sacc.
Alternaria Brassicae (Berk.) Sacc.

Brassica Rapa Linn.

Plasmodiophora Brassicae Woron.
Cystopus candidus de Bary
Peronospora parasitica (Pers.) Tul.
Erysiphe communis (Wallr.) Link
Cercosporella Brassicae (Fautr. & Roum.) v. Höhn.
Alternaria herculea (Ell. & Mart.) Elliott

Brassica sp. indet.

Cystopus candidus de Bary

Cardamine africana Linn.

Cystopus candidus de Bary

Cochlearia Armoracia Linn.

=Amoracia rustieana Gaertn., Mey & Scherb.

Heliophila Meyeri Sond.

Cystopus candidus de Bary

Heliophila spp. indet.

Cystopus candidus de Bary

Iberis sp. indet.

Plasmodiophora Brassicae Woron.

Lepidium sp. indet.

Cystopus candidus de Bary

Matthiola incana R. Br.

Sclerotinia sclerotiorum (Lib.) de Bary
Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Fautr. var compactum Wollenw.
Fusarium Solani Mart. var. Martii Appel & Wollenw. f. l. Wollenw.
Fusarium vasinfectum Atk. f. 2 Wollenw. & Reinking
Rhizoctonia sp.

Raphanus Rhaphanistrum Linn.

Peronospora parasitica (Pers.) Tul.

Raphanus sativus Linn.

Cystopus candidus de Bary
Peronospora parasitica (Pers.) Tul.

Sisymbrium gariepinum Burch.

Cystopus candidus de Bary

Sisymbrium sp. indet.

Cystopus candidus de Bary

CAPPARIDACEAE.

Boscia caffra Sond.

=Maerua racemulosa (A.P.DC.) Gilg. & Ben.

Capparis citrifolia Lam.

Asterina capparidicola Doidge
Asterina elegans Doidge
Microthyrium maculicolum Doidge
Bulgariastrum bullatum Doidge
Oncospora bullata Kalchbr. & Cooke

Capparis corymbifera E. Mey.

=Capparis tomentosa Lam.

Capparis Flanagani Gilg. & Ben.

Oncospora bullata Kalchbr. & Cooke

Capparis Gueinzii Sond.

Asterina elegans Doidge
Asterina sphaerasca Thuem.
Asterina Woodii Doidge
Oncospora bullata Kalchbr. & Cooke

Capparis Rudatisii Gilg. & Ben.

Bulgariastrum africanum Kalchbr. & Cooke
Oncospora viridans Kalchrb. & Cooke

Capparis tomentosa Lam.

Meliola Bosciae Doidge

Capparis Volkameriae DC.

Asterina capparidicola Doidge

Capparis Zeyheri Turcz

Asterina capparidicola Doidge

Capparis spp. indet.

Oncospora bullata Kalchbr. & Cooke

Gynandropsis pentaphylla CD.
Sorodiscus radicicolus Iv. Cook

Maerua Legatii Burtt Davy
Hysterostomella Bosciae Doidge

Maerua racemulosa (A.P.DC.) Gilg. & Ben.
Meliola Bosciae Doigde
Hysterostomella Bosciae Doidge
Asterina Peglerae Doidge

Maerua spp. indet.
Meliola Bosciae Doidge
Asterina Peglerae Doidge

Niebuhria pedunculata Hochst.
=Maerua raemculosa (A.P.DC.) Gilg. & Ben.

RESEDACEAE.

Reseda odorata Linn.
Cercospora Resedae Fuck.

NEPENTHACEAE.

Nepenthes Goetlingiana
Phyllosticta Nepenthecarum F. Tassi

Nepenthes gracilis Korthals
Phyllosticta Nepenthecarum F. Tassi

Nepenthis Outramiana Williams
Phyllosticta Nepenthecarum F. Tassi

CRASSULACEAE.

Cotyledon orbiculata Linn.
Septoria Cotyledonis Wakef.

Cotyledon sp. indet.
Phytophthora parasitica Dast.

Crassula arborescens (Mill.) Willd.
Septobasidium sp.

Crassula spathulata Thunb.
Puccinia exanthematica MacOwan

SAXIFRAGACEAE.

Choristylis rhamnoides Harv.

Meliola Choristylidis Doidge

Hydrangea opuloides Koch

Macrophoma sp.
Colletotrichum sp.
Oidium Hortensiae Jørstad
Rhizoctonia sp.

Montinia acris Linn.

=Montinia caryophyllacea Thunb.

Montinia caryophyllacea Thunb.

Puccinia deformans Wint.

Ribes nigrum Linn.

Leptosphaeria anceps Sacc.

Ribes rubrum Linn.

Leptosphaeria anceps Sacc.

Ribes sativum Syme

Cylindrosporium Ribis Davis

Ribes sp. indet.

Septoria Ribis Desm.

PITTOSPORACEAE.

Pittosporum undulatum Vent.

Botryodiplodia Theobromae Pat.
Pestalotia Guepini Desm.
Rhizoctonia lamellifera Small

Pittosporum viridiflorum Sims

Meliola polytricha Kalchbr. & Cooke

Pittosporum sp. indet.

Botryodiplodia Theobromae Pat.

CUNONIACEAE.

Cunonia capensis Linn.

Meliola sp.
Schiffnerula radians (Syd.) Hansf.
? Fomes pinicola (Sw. ex Fr.) Cooke
Ganoderma applanatum (Pers.) Pat.

Platylophus trifoliatus Don.

Stigmatea Platylophi Verw. & Du Pless.
Fistulina africana v. d. Byl.
Fomes Robinsoniae (Murr.) Sacc. & Trott.

HAMAMELIDACEAE.

Trichocladus crinitus Pers.

Irene scabra Doidge
Meliola torta Doidge
Scorias sp.
Asterina Trichocladi Doidge
Pestalotia Trichocladi Laughton

Trichocladus ellipticus E. & Z.

Irene scabra Doidge
Asterinella contorta (Doidge) Hansf.
Lembosia piriensis Doidge

Trichocladus spp. indet.

Stereum fasciatum (Schw.) Fr.
Fomes McGregori Bres.
Ganoderma applanatum (Pers.) Pat.
Polyporus ochroleucus Berk.

ROSACEAE.

Agrimonia Eupatoria Linn. var. **capensis** Harv.

Pucciniastrum Agrimoniae (Diet.) Tranzsch.

Alchemilla Rehmannii Engl.

Uromyces Alchemillae (Pers.) Lév.

Cliffortia ferruginea Linn. f.

Irene calostroma (Desm.) v. Höhn.

Cliffortia strobilifera Murr.

Irene calostroma (Desm.) v. Höhn.

Cydonia oblonga Mill.

Sphaeropsis malorum Peck
Entomosporium maculatum Lev.
Gloeosporium fructigenum Berk.
Monochaetia Cydoniae Pole Evans & Doidge
Pestalotia sp.
? Fusarium moniliforme Sheld. var. subglutinans Wollenw.

Eriobotrya japonica Lindl.

Armillaria mellea (Vahl ex Fr.) Quél.
Phyllosticta Eriobotryae Thuem.
Botryodiplodia Theobromae Pat.

Entomosporium maculatum Lév.
Gloeosporium fructigenum Berk.
Fusicladium Eriobotryae Cav.
Macrosporium sp.

Fragaria vesca Linn.

Mycosphaerella Fragariae (Tul.) Lindau

Fragaria spp. indet.

Rhizopus nigricans Ehrhenb.
Sphaerotheca macularis (Wallr.) Jacz.
Mycosphaerella Fragariae (Tul.) Lindau
Marssonina Fragariae (Sacc.) Kleb.
Botrytis cinerea Pers.
Trichothecium roseum Link
Cladosporium herbarum Link
Rhizoctonia sp.
Sclerotium Rolfsii Sacc.

Geum capense Thunb.

Sphaerella geicola Kalchbr. & Cooke

Leucosidea sericea Eckl. & Zeyh.

Irene calostroma (Desm.) v. Höhn.

Parinarium capense Harv.

Phaeochorella Parinarii (P. Henn.) Theiss. & Syd.

Parinarium curatellifolium Planch.

Phaeochorella Parinarii (P. Henn.) Theiss. & Syd.

Parinarium mobola Oliv.

Phaeochorella Parinarii (P. Henn.) Theiss. & Syd.
Armillaria mellea (Vahl. ex Fr.) Quél.
Melasmia Parinarii P. Henn.

Parinarium sp. indet.

Phacidium nitidum Welw. & Curr.

Prunus Armeniaca Linn.

Rhizopus nigricans Ehrhenb.
Taphrina Mume Nish.
Sphaerotheca pannosa var. Persicae Woron.
Sclerotinia sclerotiorum (Lib.) de Bary
Calosphaeria princeps Tul.
Valsaria Eucalypti (Kalchbr. & Cooke) Sacc.
Puccinia Pruni-spinosae Pers.
Stereum purpureum (Pers. ex Fr.) Fr.
Polyporus gilvus (Schw.) Fr.
Trametes cingulata Berk.

Trametes Proteus (Berk.) Fr.
Armillaria mellea (Vahl ex Fr.) Quél.
Schizophyllum commune Fr.
Cytospora leucostoma Sacc.
Phyllosticta prunicola Sacc.
Cladosporium carpophilum Thuem.
Clasterosporium carpophilum (Lév.) Aderh.
Sclerotium Rolfsii Sacc.

Prunus avium Linn.

Armillaria mellea (Vahl ex Fr.) Quél.
Schizophyllum commune Fr.
Cytospora leucostoma Sacc.
Cylindrosporium Padi Karst.
Cercospora circumscissa Sacc.

Prunus communis Fritsch

Puccinia Pruni-spinosae Pers.
Stereum purpureum (Pers. ex Fr.) Fr.
Polystictus versicolor (Linn. ex Fr.) Fr.
Gloeosporium amygdalinum Brizi.
Cercospora guliana Sacc.
Clasterosporium carpophilum (Lév.

Prunus persica Sieb. & Zucc.

Rhizopus nigricans Ehrhenb.
Taphrina deformans (Fuck.) Tul.
Spherotheca pannosa (Wallr.) Lev. var. persicae Woronich.
Sclerotinia ? fructicola (Wint.) Rehm
Calosphaeria princeps Tul.
Puccinia Pruni-spinosae Pers.
Septobasidium natalense Couch
Stereum purpureum (Pers. ex Fr.) Fr.
Fomes annosus (Fr.) Gillet
Polystictus versicolor (Linn. ex Fr.) Fr.
Trametes roseola Pat. & Har.
Armillaria mellea (Vahl ex Fr.) Quél.
Schizophyllum commune Fr.
Cytospora leucostoma Sacc.
Phoma Persicae Sacc.
Phyllosticta Persicae Sacc.
Phyllosticta prunicola Sacc.
Penicillium italicum Wehm.
Cercospora rubrotincta Ell. & Everh.
Cladosporium carpophilum Thuem.
Clasterosporium carpophilum (Lév.) Aderh.
Macrosporium commune Rabenh.
Fusarium lateritium Nees

Prunus persica Sieb. & Zucc. var. **nucipersica** Schneid.

Calosphaeria princeps Tul.
Taphrina deformans (Fuck.) Tul.

Puccinia Pruni-spinosae Pers.
Cladosporium carpophilum Thuem.

Prunus salicina Lindl. (and hybrids).

Rhizopus nigricans Ehrhenb.
Taphrina Pruni (Fuck.) Tul.
Sclerotinia ? fructicola (Wint.) Rehm
Valca leucostoma (Pers.) Fr.
Puccinia Pruni-spinosae Pers.
Septobasidium natalense Couch
Septobasidium sp.
Stereum purpureum (Pers, ex Fr.) Fr.
Polystictus occidentalis (Klotzsch) Fr.
Armillaria mellea (Vahl ex Fr.) uel.
Schizophyllum commune Fr.
Cytospora leucostoma Sacc.
Gloeosporium fructigenum Berk.
Oidium sp.
Penicillium italicum Wehm.
Trichothecium roseum Link.
Cladosporium carpophilum Thuem.
Fumago vagans Pers.

Prunus sp. indet.

Armillaria mellea (Vahl ex Fr.) Quél.

Pygeum africanum Hook. f.

Irene calostroma (Desm.) v. Höhn.

Pyracantha coccinea Roem.

Fusicladium Crataegi Aderh.

Pyrus communis Linn.

? Nectria galligena Bres.
Fracchaea heterogena Sacc.
Mycosphaerella sentina (Fr.) Schroet.
Calosphaeria princeps Tul.
Corticium salmonicolor Berk. & Br.
Stereum purpureum (Pers. ex Fr.) Fr.
Ganoderma applanatum (Pers.) Pat.
Sphaeropsis malorum Peck.
Septoria pyricola Desm.
Entomosporium maculatum Lév.
Gloeosporium fructigenum Berk.
Sporotrichum roseum Link.
Trichothecium roseum Link.
Coniothecium chomatosporum Corda
Fusicladium pirinum (Lib.) Fuck.

Pyrus malus Linn.

Rhizopus nigricans Ehrhenb.

? Elsinoe Pyri (Woron.) Jenk.
Podosphaera leucotricha (Ell. & Everh.) Salm.
Nectria cinnabarina (Tode) Fr.
? Nectria galligena Bres.
Diaporthe perniciosa Marchal
Eutypella stellulata (Fr.) Sacc.
Valsa leucostoma (Pers.) Fr.
Botryosphaeria Ribis (Tode ex Fr.) Gross. & Dugg.
var. chromogena Shear, Stev. & Wilcox

Fracchiaea heterogenea Sacc.
Physalospora obtusa (Schw.) Cooke
Corticium lactum (Karst.) Bres.
Corticium salmonicolor Berk. & Br.
Stereum purpureum (Pers. ex Fr.) Fr.
Septobasidium pedicellatum (Schw.) Pat.
Peniophora cinerea (Fr.) Cooke
Hexagona tenuis (Hook.) Fr.
Trametes devexa Berk.
Armillaria mellea (Vahl ex Fr.) Quél.
Schizophyllum commune Fr.
Coniothyrium Fuckelii Sacc.
Cytospora leucostoma Sacc.
Fusicoccum africanum v. d. Byl
Macrophoma curvispora Peck.
Phoma Pomi Pass.
Phomopsis perniciosa Grove
Phyllosticta Mali Prill. & Delacr.
Phyllosticta pyrina Sacc.
Phyllosticta solitaria Ell. & Everh.
Sphaeropsis malorum Peck.
Gloeodes pomigena (Schw.) Colby
Leptothyrium Pomi (Mont. & Fr.) Sacc.
Gloeosporium fructigenum Berk.
Myxosporium corticola Edgert.
Aspergillus niger v. Tiegh.
Botrytis cinerea Pers.
Penicillum expansum Link
Trichothecium roseum Link.
Coniothecium chomatosporum Corda
Fumago vagans Pers.
Fusicladium dendriticum (Wallr.) Fuck.
Alternaria sp.
Fusarium moniliforme Sheld.
Fusarium moniliforme Sheld. var subglutinans Wollenw.
Fusarium Scirpi Lamb. & Fautr.
Sclerotium Rolfsii Sacc.

Rosa canina Linn.

Sphaerotheca pannosa (Wallr.) Fuck.

Rosa centifolia Linn.

Phragmidium disciflorum (Tode) James

Rosa laevigata Michx.

Sphaerotheca pannosa (Wallr.) Lev.

Rosa spp. indet.

Sphaerotheca pannosa (Wallr.) Lev.
Leptosphaeria coniothyrium (Fuck.) Sacc.
Botryosphaeria Ribis (Tode ex Fr.) Gross. & Dugg. var. chromogena Shear, Stev. & Wilcox.
Phragmidium disciflorum (Tode) James
Phomopsis sp.
Actinonema Rosea (Lib.) Fr.
Coniothyrium Fuckelii Sacc.
Botrytis cinerea Pers.
Sphaceloma Rosarum (Pass.) Jenk.
Cladosporium herbarum Link.
Trichothecium roseum Link.

Rubus Adolfi-Friederici Engl.

Kuehneola albida (Kuhn) Magn.

Rubus cuneifolius E Merc.

Septoria Rubi West

Rubus loganobaccus Bailey

Hendersonia Rubi West
Septoria Rubi West
Gloeosporium venetum Speg.

Rubus Ludwigii Eckl. & Zeyh.

Hamaspora longissima (Thuem.) Koern.

Rubus pinnatus Willd.

Irene calostroma (Desm.) v. Höhn.
Pseudothyridaria moroides Syd.
Rosellinia aquila (Fr.) deNot.
Hamaspora longissima (Thuem.) Koern.
Botrytis cinerea Pers.

Rubus rigidus Sm.

Irene calostroma (Desm.) v. Höhn.
Hamaspora longissima (Thuem.) Koern.
Kuehneola albida (Kuhn) Magn.
Gloeosporium fructigenum Berk.

Rubus rosaefolius Sm.

Irene calostroma (Desm.) v. Höhn.
Cercospora heteromalla Syd.

Rubus transvaalensis C. E. Gust

Irene calostroma (Desm.) v. Höhn.
Hamospora longissima (Thuem.) Koern.
Kuehneola albida (Kuhn) Magn.

Rubus ursinus Cham. & Schlecht.

Phragmidium violaceum (Schultz) Wint.
Septoria Rubi West.

Rubus vitifolius Cham. & Schlecht.

=Rubus ursinus Cham. & Schlecht.

Rubus spp. indet.

Rhizopus nigricans Ehrhenb.
Hamaspora longissima (Theum.) Koern.
Kuehneola albida (Kuhn) Magn.
Phragmidium violaceum (Theum.) Koern.
Gloeosporium venetum Speg.
Septoria Rubi West.

CONNARACEAE.

Cnestis natalensis Planch. & Sond.

Meliola Cnestidis Doidge

MENISPERMACEAE.

Cissampelos mucronata A. Rich

Cercospora Pareirae Speg.

Stephania abyssinica (Dill. & Rich.) Walp.

Parastigmatea nerviseta Doidge

Stephania hernandifolia Walp.

=Stephania abyssinica (Dill. & Rich.) Walp.

MAGNOLIACEAE.

Magnolia grandiflora Linn.

Phyllosticta Magnoliae Prill. & Delacr.
Hendersonia Magnolial Sacc.

ANNONACEAE.

Annona chrysophylla Boj.

Colletotrichum anonicoloa Speg.

Annona reticulata Linn.

Phyllosticta sp.
Ascochyta Cherimoliae Thuem.
Colletotrichum anonicola Speg.

Annona senegalensis Pers.

Phyllosticta helvola (Berk. & Curt.) Tass.
Cercospora obtecta Syd.
Cercospora scitula Syd.

Artabotrys Monteiroae Oliv.

Sphaerophragmium Artabotrydis Doidge

Popowia caffra (Sond.) Hk. f. & Thoms.

Meliola Popowiae Doidge
Trichasterina Popowiae Doidge
Puccinia Popowiae Doidge

Annonaceae indet.

Uropyxis Gerstneri Doidge

LEGUMINOSAE.

Caesalpiniae.

Afzelia quanzensis Welw.

Polystictus occidentalis (Klotzsch) Fr.
Oidium sp.

Andradia arborea Sim

=Dialium Schlechteri Harms.

Bauhinia Galpinii N. E. Br.

Nematospora Coryli Pegl.
Uromyces Rhodesicus Wakef.
Oidium sp.
Cercospora Bauhiniae Syd.

Bauhinia macrantha Oliver

Uromyces Rhodesicus Wakef.
Cercospora Bauhiniae Syd.

Bauhinia punctata Bolle

=Bauhinia Galpinii N. E. Br.

Bauhinia reticulata DC.

=Bauhinia Thonningii Schum.

Bauhinia Thonningii Schum.

Uromyces Schinzianus P. Henn.
Phyllosticta Bauhiniae-reticulatae P. Henn.
Helminthosporium (Cercospora phaeocarpa Mitter)

Bauhinia spp. indet.

Uromyces Rhodesicus Wakef.

Oidium sp.
Cladosporium herbarum Link

Berlinia sp. indet.

? Hypoxylon malleolus Berk. & Rav.
Polystictus hirsutus (Wulf ex Fr.) Fr.

Brachystegia Randii Bak. f.

Erysiphe Brachystegiae Doidge
Phyllachora Brachystegiae Doidge
Xylaria allantoidea Berk.
Fomes geotropus Cooke
Fomes hornodermus (Mont.) Cooke
Hexagona Pobeguini Har.
Lenzites Palisoti Fr.
Trametes corrugata (Pers.) Bres.
Colletolrichum lindemuthianum (Sacc. & Magn.) Shear

Brachystegia spp. indet.

Parodiopsis Brachystegiae (P. Henn.) Arn.
Phyllachora Brachystegiae Doidge
Hypoxylon malleolus Berk. & Rav.
Macrosporium sp.

Burkea africana Hk.

Phyllactinia Evansii Doidge
Fomes rimosus (Berk.) Cooke

Caesalpinia sepiaria Roxb.

Neopeckia Caesalpiniae Doidge
Exidia Duthei Lloyd

Cassia delagoensis Harv.

Ravenelia Baumiana P. Henn.
Cercospora occidentalis Cooke
Cercospora sphaeroidea Speg.

Cassia goratensis Fres.

Ravenelia Baumiana P. Henn.

Cassia laevigata Willd.

Cladosporium asteromatoides Sacc.

Cassia mimosoides Linn.

Uromyces Cassiae-mimosoidis Doidge

Cassia occidentalis Linn.

Oidium sp.

Cassia singucana Delile
=Cassia goratensis Fres.

Cassia sp. indet.
Ravenelia le Testui Maubl.

Copaifera Baumiana Harms.
Parodiopsis Brachystegiae (P. Henn.) Arn.

Copaifera Gorskiana Benth.
Daldinia concentrica (Bolt. ex Fr.) Ces. & deNot.

Copaifera Mopane Kirk
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Hexagona speciosa Fr.

Delonix regia Raf.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Armillaria mellea (Vahl ex Fr.) Quél.
Phomopsis sp.

Dialium Schlechteri Harms
Phyllachora rikatliensis (Doidge) Petr.
Microdiplodia rikatliensis Petr.

Isoberlinia globifera Hutch. & Burtt Davy
Oidium sp.

Peltophorum africanum Sond.
Phyllachora Peltophori Syd.

Schotia latifolia Jacq.
Chaetothyrium capense (Doidge) Hansf.
Fomes rimosus (Berk.) Cooke
Polystictus ochraceus (Pers.) Lloyd
Trametes hispida Bagl.
Trametes lactinea (Berk.) Fr.
Oidium sp.

Schotia speciosa Jacq.
Phyllachora Schotiae Doidge

MIMOSEAE.

Acacia ataxacantha DC.
Eutypella Acaciae Doidge
Ravenelia Halsei Doidge

Acacia Benthami Roxbr.
Phyllachora Halsei Doidge

Acacia Burkei Benth.

Ravenelia escharoides Syd.
Septobasidium protractum Syd.

Acacia caffra (Thunb.) Willd.

Ravenelia Peglerae Pole Evans
Ravenelia Pienarii Doidge

Acacia cyclops Cunn.

Stilbum aurantio-cinnabarinum Speg.

Acacia decurrens Willd.

Nectria coccinea (Pers.) Fr.
Daldinia concentrica (Bolt. ex Fr.) Ces. & deNot.
Stereum hirsutum (Willd. ex Fr.) Fr.
Amauroderma rugosum (Blume & Nees).
Ganoderma applanatum (Pers.) Pat.
Lenzites Palisoti Fr.
Polyporus fruticum Berk. & Curt.
Polystictus hirsutus (Schw.) Cooke
Polystictus occidentalis (Klotzsch) Fr.
Polystictus polyzonus (Pers.) Cooke
Polystictus sanguineus (Linn. ex Fr.) Fr.
Polystictus versicolor (Linn. ex Fr.) Fr.
Trametes cingulata Berk.
Trametes Meyenii (Klotzsch) ? Lloyd
Trametes trabea (Pers. ex Fr.) Bres.
Trametes violacea Lloyd
Schizophyllum commune Fr.

Acacia decurrens Willd. var. **dealbata** F. v. M.

Trametes Meyenii (Klotzsch) ? Lloyd

Acacia detinens Burch.

Ravenelia transvaalensis Doidge
Septobasidium protractum Syd.

Acacia Gerrardi Benth.

Phyllachora Halsei Doidge
Ravenelia Evansii Syd.

Acacia Gillettae Burtt-Davy

Ravenelia modesta Doidge

Acacia Giraffae Burch.

Hysterographium Acaciae Doidge

Acacia hirtella E. Mey

Ravenelia natalensis Syd. & Evans
Septobasidium protractum Syd.

Acacia Karroo Hayne

Patellaria atrata (Hedw.) Fr.
Ravenelia inornata Diet.
Ravenelia MacOwaniana Pazschke
Stereum hirsutum (Willd. ex Fr.) Fr.
Daedalea Eatoni Berk.
Fomes rimosus (Berk.) Cooke
Ganoderma lucidum (Leyss. ex Fr.) Fr.
Hexagona crinigera Fr.
Lenzites Palisoti Fr
Trametes capensis Lloyd
Omphalia integrella (Pers. ex Fr.) uel.
Schizophyllum commune Fr.
Stilbum aurantio-cinnabarinum Speg.

Acacia litakunensis Burch.

Hysterographium spinicolum Doidge
Aecidium litakunensis Doidge
Septogloeum Acaciae Verw. & du Pless. (non Sy

Acacia melanoxylon R. Br.

Daldinia concentrica (Bolt. ex Fr.) Ces. & deNot.
Corticium laetum (Karst.) Bres.
Fomes pectinatus (Klotzsch) Gillet
Ganoderma applanatum (Pers.) Pat.
Lenzites Palisoti Fr.
Polyporus gilvus (Schw.) Fr.
Polystictus zonatus Fr.
Schizophyllum commune Fr.

Accacia mollissima Willd.

Hypocrea subcitrina Kalchbr. & Cooke
Megalonectria pseudotricha (Schw.) Speg.
Hypoxylon exutans Cooke
Guepinia spathularia (Schw.) Fr.
Hymenochaete tristicula (Berk. & Br.) Mass.
Stereum bicolor Fr.
Stereum fasciatum (Schw.) Fr.
Stereum hirsutum (Willd. ex Fr.) Fr.
Stereum sanguinolentum (Alb. & Schw. ex Fr.) Fr.
Stereum vellereum Berk.
Hydnum setosum (Pers.) Bres.
Irpex modestus Berk. ex Cooke
Daedalea Eatoni Berk.
Amauroderma rugosum (Blume & Nees)
Favolus spathulatus (Jungh.) Bres.
Fomes lividus (Kalchbr.) Cooke
Ganoderma applanatum (Pers.) Pat.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Lenzites betulina (Linn. ex Fr.) Fr.
Lenzites Palisoti Fr.
Polyporus Acaciae v. d. Byl
Polyporus Doidgeae Wakef.

Polystictus aratus (Berk.) Cooke
Polystictus hirsutulus (Schw.) Cooke
Polystictus hirsutus (Wulf ex Fr.) Fr.
Polystictus occidentalis (Klotzsch) Fr.
Polystictus pergameus Fr.
Polystictus subiculoides Lloyd
Polystictus sanguineus (Linn. ex Fr.) Fr.
Polystictus velutinus (Pers. ex Fr.) Cooke
Poria attenuata Peck
Poria vaporaria (Fr.) Cooke
Poria vulgaris (Fr.) Cooke
Trametes cingulata Berk.
Trametes gibbosa (Pers. ex Fr.) Fr.
Trametes griseo-lilacina v. d. Byl
Trametes lactinea (Berk.) Fr.
Trametes Meyenii (Klotzsch) ? Lloyd
Trametes Proteus (Berk.) Fr.
Trametes roseola Pat. & Har.
Lentinus stuppeus Klotzsch
Schizophyllum commune Fr.
Cylindrocladium scoparium Morgan
Stigmina verruculosa Syd.
Rhizoctonia lamellifera Small
Rhizoctonia sp.

Acacia mossambicensis Bolle

Ravenelia escharoides Syd.

Acacia pallens Rolfe

Septobasidium protractum Syd.

Acacia pennata Willd.

? Ravenelia pretoriensis Syd.

Acacia Rehmanniana Schinz

Ravenelia Evansii Syd.
Leptostromella Acaciae Syd.

Acacia robusta Burch.

Phyllactinia Acaciae Syd.
Phyllachora Halsei Doidge
Ravenelia Evansii Syd.
Lasmeniella globulifera (Rabenh.) Petr. & Syd.

Acacia saligna Wendl.

Exidia purpurea-cinerea MacOwan & Kalchbr.
Schizophyllum commune Fr.
Diplodia lichenopsis Cooke & Mass.
Tubercularia minor Link

Acacia stolonifera Burch.

Ravenelia modesta Doidge
Aecidium Burtt-Davyi Doidge

Acacia uncinata Engl.

Aecidium Dinteri Doidge

Acacia Woodii Burtt Davy

Ravenelia Evansii Syd.

Acacia sp. (Near *Acacia arabica* Willd.=A. Benthami Roxbr.)

Ravenelia deformans (Maubl.) Diet.

Acacia spp. indet.

Aecidium spinicolum Doidge
Ravenelia Evansii Syd.
Septobasidium protractum Syd.
Stereum hirsutum (Willd. ex Fr.) Fr.
Daedalea Dregeana Mont.
Daedalea Hobbsii v. d. Byl
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Polyporus adustus (Willd. ex Fr.) Fr.
Polystictus flavus (Jungh.) Fr.
Polystictus versicolor (Linn. ex Fr.) Fr.
Trametes cingulata Berk.
Schizophyllum commune Fr.
? Cytospora verrucula Sacc. & Berl.
Stilbum aurantio-cinnabarinum Speg.

Albizzia amara Boiv.

Ganoderma lucidum (Leyss. ex Fr.) Karst.
Trametes corrugata (Pers.) Bres.

Albizzia fastigiata Oliv.

=Albizzia gummifera (Gmel.) C. A. Sm.

Albizzia gummifera (Gmel.) C. A. Sm.

Endodothella Deightonii Syd.
Ravenelia minima Cooke
Microstroma Albizziae Syd.
Ganoderma applanatum (Pers.) Pat.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Hexagona tenuis (Hook.) Fr.
Polystictus occidentalis (Klotzsch) Fr.
Lasmeniella globulifera (Rabenh.) Petr. & Syd.

Albizzia versicolor Welw. ex. Oliv.

Ravenelia Bottomleyae Doidge

Albizzia versicolor Welw. ex Oliv. var **mossambicensis** Schinz
Microstroma Albizziae Syd.

Dichrostachys glomerata (Forsk.) Chiov.
Endodothella natalensis Doidge
Ravenelia Dichrostachydis Doidge

Dichrostachys nutans Benth.
=Dichrostachys glomerata (Forsk.) Chiov.

Dichrostachys nyassana Taub.
Mycosphaerella Dichrostachydis v. d. Byl

Elephantorrhiza Burchellii Benth.
=Elephantorrhiza elephantina (Burch.) Skeels

Elephantorrhiza elephantina (Burch.) Skeels
Ravenelia Elephantorrhizae Doidge

PAPILIONACEAE.

Aeschynome nyassana Taub.
Parodiella perisporioides (B. & C.) Speg.

Alysicarpus violaceus (Forsk.) Schindl.
Uromyces Alysicarpi Wakef. & Hansf.

Alysicarpus sp. indet.
Uromyces Alysicarpi Wakef. & Hansf.

Arachis hypogaea Linn.
Rhizopus nigricans Ehrhenb.
Pythium ultimum Trow
Phyllosticta sp.
Aspergillus niger v. Tiegh.
Botrytis cinerea Pers.
Cercospora arachidicola Hori
Cercospora personata (Berk. & Curt.) Ellis
Fusarium angustum Sherb.
Fusarium oxysporum Schlecht. var aurantiacum (Link) Wollenw.
Fusarium Scirpi Lamb. & Fautr.
Sclerotium Rolfsii Sacc.

Argyrolobium amplexicaule (E. Mey.) Dummer
Uromyces Argyrolobii Doidge

Argyrolobium Wilmsii Harms.
Cercospora Argyrolobii Chupp & Doidge

Aspalathus pachyloba Benth.
Uromyces Bolusii Mass.

Aspalathus sp. indet.
Uromyces Bolusii Mass.

Baphia obovata Schinz
Uredo kampuluvensis P. Henn.

Baphia Goossensi de Wild. var. **grandifolia** de Wild.
Meliola sp.

Borbonia parviflora Lam.
Uromyces ventosa Syd.

Borbonia sp. indet.
Uromyces ventosa Syd.

Cajanus Cajan Millsp.
Uromyces Dolicholi Arth.

Calpurnia sylvatica E. Mey.
Ravenelia glabra Kalchrb. & Cooke
Ascochyta Calpurniae Wint.

Canavalia ensiformis DC.
Alternaria Brassicae (Berk.) Bolle var. Phaseoli Brum.

Canavalia obtusifolia DC.
Phyllosticta Canavaliae v. d. Byl

Ceratonia siliqua Linn.
Septobasidium sp. nr. S. Curtisii (Berk. Desm.) Boed. & Steinm.

Crotalaria agatiflora Scheunf.
Irpex flavus Klotzsch

Crotalaria australis Bak. f.
Uromyces Harmsianus (P. Henn.) Doidge

Crotalaria dura Wood & Evans
Parodiella perosporioides (Ber.k & Curt.) Speg.

Crotalaria excisa Bak. f.
? Uredo Lotononi Doidge

Crotalaria intermedia Klotzsch

Cercospora demetrioniana Wint.

Crotalaria juncea Linn.

Gibberella Fujikuroi Sawada var. subglutinans Edwards
Mycosphaerella pinodes (Berk. & Br.) Stone
Pleurage Brassicae (Klotzsch) Kuntze
Nematospora Coryli Pegl.
Oidium sp.
Colletotrichum lindemuthianum (Sacc. & Magn.) Shear
Cercospora demetrioniana Wint.
Cladosporium herbarum Link
Fusarium moniliforme Sheld. var. subglutinans Wollenw.
Fusarium Scirpi Lamb. & Fautr.
Fusarium vasinfectum Atk. f.2. Wollenw. & Reinking

Crotalaria lachnoclada Harms

Uredo crotalariicola P. Henn.

Crotalaria lanceolata E. Mey.

Uromyces Harmsianus (P. Henn.) Doidge

Crotalaria sp. indet.

Aecidium Dielsii P. Henn.

Cyamopsis psoraloides DC.

Colletotrichum sp.
Fusarium sp., near F. vasinfectum Atk.

Dalbergia armata E. Mey.

Phyllachora puncta (Cooke) Doidge
Sphaerophragmium Dalbergiae Diet.

Desmodium hirtum G. & P.

Parodiella perisporioides (Berk. & Curt.) Speg.

Desmodium Leiocarpum G. Don.

Colletotrichum sp.

Desmodium scalpe DC.

Synchitrium Dolichi (Cooke) Gaumann

Desmodium spirale DC.

Colletotrichum omnivorum Halst.

Dolichos axillaris E. Mey.

=Dolichos biflorus Linn.

Dolichos Baumii Harms

Helminthosporium accedens Syd.

Dolichos biflorus Linn.

Synchitrium Dolichi (Cooke) Gaumann
Oidium sp.
Cercospora canescens Ell. & Mart.

Dolichos euryphyllus Harms

Helminthosporium Dolichi Syd.

Dolichos falciformis E. Mey.

Uromyces Vignae Barcl.

Dolichos gibbosus Thunb.

Uromyces Vignae Barcl.

Dolichos lupiniflorus N. E. Br.

Uromyces Vignae Barcl.
Oidium sp.

Dolichos spp. indet.

Synchitrium Dolichi (Cooke) Gaumann.
? Phyllachora circinata (Kalchbr. & Cooke) Theiss. & Syd.
Cercospora canescens Ell. & Mart.

Eriosema cajanoides Benth.

Uromyces Rhynchosiae Cooke

Eriosema cordatum E. Mey.

Parodiella perisporioides (Berk. & Curt.) Speg.
Uromyces Rhynchosiae Cooke

Eriosema Englerianum Harms.

Parodiella perisporioides (Berk. & Curt.) Speg.

Eriosema salignum E. Mey.

Parodiella perosporioides (Berk. & Curt.) Speg.
Uromyces Rhynchosiae Cooke

Eriosema spp. indet.

Uromyces Rhynchosiae Cooke

Erythina caffra Thunb.

Phyllactinia Erythrinae Doidge
Septobasidium mompa (Tanaka) Rac.

Flemingia Grahamiana Wight & Arn.

Uromyces Rhynchosiae Cooke
Cercospora melaena Syd.

Glycine javanica Linn.

Synchitrium Dolichi (Cooke) Gaumann

Glycine Max Merr.

Peronospora trifoliorum de Bary
Corticium vagnum Berk. & Curt.
Ascochyta Pisi Lib.
Colletotrichum Glycines Hori
Macrophomina Phaseoli (Maubl.) Ashby
Phoma sp.
Oidium sp.
Sclerotium Rolfsii Sacc.
Rhizoctonia crocorum (Pers.) DC.

Indigofera hilaris E. & Z.

Parodiella perisporioides (Berk. & Curt.) Speg. var. microspora Theiss. & Syd.

Indigofera malacostachys Benth.

Parodiella perisporioides (Berk. & Curt.) Speg. var. microspora Theiss. & Syd.

Indigofera natalensis Bolus

Meliola Indigoferae Syd.

Indigofera neglecta N. E. Br.

Parodiella perisporioides (Berk. & Curt.) Speg. var. microspora Theiss. & Syd.
Uredo Indigoferae Doidge

Indigofera pretoriana Harms

Uredo Indigoferae Doidge

Indigofera tristis E. Mey.

Parodiella perisporioides (Berk. & Curt.) Speg. var microspora Theiss. & Syd.

Indigofera spp. indet.

Parodiella perisporioides (Berk. & Curt.) Speg. var. microspora Theiss. & Syd.
Ravenelia Indigoferae Tranzsch.
Uromyces ermelensis Doidge
Uredo Indigoferae Doidge

Lathyrus odoratus Linn.

Pythium ultimum Trow
? Erysiphe Martii Lev.
Botrytis cinerea Pers.
Fusarium oxysporum Schlecht.
Fusarium Scirpi Lamb. & Fautr.

Fusarium Scirpi Lamb. & Fautr. var. compactum Wollenw.
Fusarium Solani Mart. var. Martii (App. & Wollenw.) f. l. Wollenw.
Fusarium Solani Mart. var. Martii (App. & Wollenw.) f. l. Wollenw. and ? f. 2. Snyder
Fusarium vasinfectum Atk. var. lutulatum (Sherb.) Wollenw.
Rhizoctonia sp.

Lebeckia Candolleana Walp.
Aphysa Lebeckiae (Verw. & Dipp.) Doidge

Lebeckia sericea Thunb.
Aecidium Lebeckiae P. Henn.

Lebeckia Simsiana E. & Z.
Aecidium Lebeckiae P. Henn.

Lessertia depressa Harv.
Diachora Lessertiae (Doidge) Petr.

Lessertia perennans DC.
Diachora Lessertiae (Doidge) Petr.

Lessertia stricta Bolus
Diachora Lessertiae (Doidge) Petr.

Lonchocarpus Capassa Rolfe
Uredo Lonchocarpi Doidge

Lonchocarpus sp. indet.
Aecidium Menyharthi P. Henn.

Lotononis corymbosa Benth.
Uredo Lotononi Doidge

Lotononis cytisoides Benth.
Uredo Lotononi Doidge

Lotononis hirsuta Schinz.
Uredo Lotononi Doidge

Lotononis oxyptera Benth.
Uredo Lotononi Doidge

Lotononis sp. indet.
Uredo Lotononi Doidge

Lupinus albus Linn.
Sclerotium Rolfsii Sacc.

Lupinus angustifolius Linn.

Sclerotinia sclerotiorum (Lib.) de Bary
? Ascochyta Pisi Lib.
Botrytis cinerea Pers.

Lupinus spp. indet.

? Erysiphe Pisi DC.
Fusarium bulbigenum Cooke & Mass. var. tracheiphilum (E. F. Sm.) Wollenw.

Medicago aschersoniana Urb.

Uromyces striatus Schroet.

Medicago sativa Linn.

Peronospora trifoliorum de Bary
Neocosmospora vasinfecta E. F. Sm. var. tracheiphila E. F. Sm.
Pleospora herbarum (Pers.) Rabenh.
Pseudopeziza Medicaginis (Lib.) Sacc.
Uromyces striatus Schroet.
Phyllosticta Medicaginis (Fuck.) Sacc.
Colletotrichum Trifolii Bain & Essary
Botrytis cinerea Pers.
Fusarium angustum Sherb.
Fusarium Solani Mart. var. Martii (App. & Wollenw.) f. 1. Wollenw.
Rhizoctonia crocorum (Pers.) DC.
Rhizoctonia lamellifera Small

Melilobium sp. indet.

Aecidium australe Berk.

Melilotus alba Desr.

Colletotrichum Glycines Hori

Milletia caffra Meisn.

Diorchidium Woodii Kalchbr. & Cooke
Fomes rimosus (Berk.) Cooke

Milletia Sutherlandi Harv.

Xylaria castorea Berk.
Pestalotia Milletiae Laughton

Mucuna coriacea Baker

Uromyces Mucunae Rabenh.

Mucuna irritans Burtt Davy

Uromyces Mucunae Rabenh.

Mucuna pruriens (Linn.) DC.

Uromyces Mucunae Rabenh.
Phyllosticta phaseolina Sacc.

Mucuna utilis Wall ex Wright
=Mucuna pruriens (Linn.) DC.

Mucuna sp. indet.
Uromyces Mucunae Rabenh.

Mundulea sericea (Willd.) Greenway
Ravenelia stictica Berk. & Br.
Heterosporium Munduleae Syd.

Mundulea suberosa Benth.
=Mundulea sericea (Willd.) Greenway

Ormocarpum trichocarpum (Taub.) Harms
Uropyxis Steudneri P. Magn. var. rhodesica Doidge

Phaseolus acutifolius Gray var. **latifolius** Freem.
Uromyces appendiculatus (Pers.) Link
Vermicularia Capsici Syd.
Fusarium Solani (Mart.) Mvar. Martii (App. & Wollenw.) f. l. Wollenw.

Phaseolus aureus Roxb.
Phoma subcircinata Ell. & Everh.
Ascochyta Pisi Lib.
Colletotrichum lindemuthianum (Sacc. & Magn.) Bri. & Cav.

Phaseolus coccineus Linn.
Uromyces appendiculatus (Pers.) Link.
Colletotrichum lindemuthianum (Sacc. & Magn.) Bri. & Cav.
Macrosporium Phaseoli Fautr.

Phaseolus limensis Macf.
Phyllosticta phaseolina Sacc.
Ascochyta Pisi Lib.

Phaseolus vulgaris Linn.
Haplosporangium bisporale Thaxt.
Pythium de Baryanum Hesse var. Pelargonii Braun
Pythium spinosum Sawada
Pythium ultimum Trow
Ashbya Gossypii (Ashby & Nowell) Guill.
Nematospora Coryli Pegl.
Uromyces appendiculatus (Pers.) Link
Phoma circinata Ell. & Everh.
Phyllosticta phaseolina Sacc.
Colletotrichum lindemuthianum (Sacc. 7 Magn.) Br. & Cav.
Macrosporium Phaseoli Fautr.
Cercospora canescens Ell. & Mart.
Cercospora columnaris Ell. Everh.

Cercospora cruenta Sacc.
Fusarium oxysporum Schlecht. var aurantiacum (Link) Wollenw.
Fusarium Solani (Mart.) Appel & Wollenw.
Fusarium Solani var. Martii (Appel & Wollenw.) f. 1. Wollenw.
Sclerotium Rolfsii Sacc.

Phaseolus spp. indet.

? Phyllachora circinata (Kalchbr. & Cooke) Theiss. & Syd.
Fusarium Scirpi Lamb. & Fautr. var. acuminatum (Ell. & Everh.) Wollenw.

Pisum sativum Linn.

Peronospora Viciae (Berk.) de Bary
Pythium acanthicum Dreschsl.
Pythium ultimum Trow
Erysiphe Pisi DC.
Mycosphaerella pinodes (Berk. & Br.) Stone
Ascochyta Pisi West.
Septoria Pisi West.
Cladosporium pisicolum Snyder
Fusarium moniliforme Sheld.
Fusarium oxysporum Schlecht. f. 8 Snyder
Fusarium Scirpi Lamb. & Fautr.
Fusarium Solani (Mart.) Appel & Wollenw. var. Martii (App. & Wollenw.) f. 1. Wollenw.
Fusarium vasinfectum Atk. var. lutulatum (Sherb.) Wollenw.
Sclerotium Rolfsii Sacc.

Pseudarthria Hookeri Wight & Arn.

Uromyces Pseudarthriae Cooke

Psoralea decumbens Ait.

Parodiella perisporioides (Berk. & Curt.) Speg.
Uromyces Psoraleae Peck

Psoralea obliqua E. Mey.

Uromyces Psoraleae Peck

Psoralea polysticta Benth.

Uredo Psoraleae-polystictae Doidge

Psoralea sp. indet.

Uromyces Psoraleae Peck

Pterocarpus angolensis DC.

Phyllachora Pterocarpi Syd.
Hexagona Pobeguini Har.

Pterocarpus erinaceus Pior.

Phyllachora Pterocarpi Syd.

Pterocarpus rotundifolius (Sond.) Druce
Uncinula incrassata Salm.
Phyllachora Pterocarpi Syd.
Pseudothis Pterocarpi Syd.
Lasmeniella globulifera (Rabenh.) Petr. & Syd.

Pterocarpus sericeus Nenth.
=Pterocarpus rotundifolius (Sond.) Druce

Pterocarpus sp. indet.
Phyllachora Pterocarpi Syd.

Rafnia amplexicaulis E. Mey.
Aecidium resinaecolum (Rud.) Wint.

Rafnia angulata Thunb.
Aecidium resinaecolum (Rud.) Wint. var. tumefaciens Wint.

Rafnia perfoliata E. Mey.
Didymosphaeria Rafniae Verw. & du Pless.
Aecidium resinaecolum (Rud.) Wint.

Rafnia sp. indet.
Aecidium resinaecolum (Rud.) Wint.
Coniothyrium rafniicola (P. Henn.) Petr.

Rhynchosia adenodes E. & Z.
=Rhynchosia effusa (E. Mey.) Druce

Rhychosia caribaea DC.
Aphysa Rhynchosiae (Kalchbr. & Cooke) Theiss. & Syd.
Uromyces Rhynchosiae Cooke

Rhynchosia effusa (E. Mey.) Druce
Uromyces Rhynchosiae Cooke

Rhynchosia Harmsiana Schlecht.
Uromyces Rhynchosiae Cooke

Rhynchosia komatiensis Harms
Aphysa Rhynchosiae (Kalchbr. & Cooke) Theiss. & Syd.

Rhynchosia Memnonia DC. var. **prostrata** Harv.
Uromyces Rhynchosiae Cooke

Rhynchosia orthodanum Benth.
=Rhynchosia sordida (E. Mey.) Schinz

Rhynchosia picta Burtt Davy
Aphysa Rhynchosiae (Kalchbr. & Cooke) Theiss. & Syd.

Rhynchosia secunda (Thunb.) E. & Z.
Uromyces Rhynchosiae Cooke

Rhynchosia sordida (E. Mey.) Schinz
Uromyces Rhynchosiae Cooke

Rhynchosia totta (Thunb.) DC.
Uromyces Rhynchosiae Cooke

Rhynchosia spp. indet.
Synchitrium Dolichi (Cooke) Gaumann
Aphysa Rhynchosiae (Kalchbr. & Cooke) Theiss. & Syd.
Uromyces Rhynchosiae Cooke

Sesbania sp. indet.
? Uromyces Argyrolobii Doidge

Sphenostylis angustifolia Sond.
Phyllactinia Sphenostylidis Doidge
Parodiella perisporioides (Berk. & Curt.) Speg.
Puccinia Tristachyae Doidge (I)

Sphenostylis erecta Hutch.
Puccinia Tristachyae Doidge (I)

Sphenostylis marginata E. Mey.
Aecidium Vignae Cooke

Sphenostylis sp. indet.
Aecidium Vignae Cooke

Stizolobium Deeringianum Bort.
Uromyces Mucunae Rabenh.
Cercospora Stizolobii Syd.

Stylosanthes mucronata Willd.
Uredo Stylosanthis P. Henn.

Sutherlandia frutescens R. Br.
Physalosporina Sutherlandiae (Kalchbr. & Cooke) Petr.

Tamarindus indica Linn.
Stereum Schomburgkii Berk.
Oidium sp.

Tephrosia elongata E. Mey.
Ophiodothella edax (Berk. & Br.) v. Höhn.

Tephrosia Heckmanniana Harms.
Ravenelia Tephrosiae Kalchbr.

Tephrosia macropoda (E. Mey.) Harv.
Ravenelia Tephrosiae Kalchbr.

Tephrosia Nyasae Bak. f.
Phyllachora Tephrosiae Syd.

Tephrosia Transvaalensis Hutch. & Burtt Davy
Oidium sp.

Tephrosia sp. indet.
Parodiella perisporioides (Berk. & Curt.) Speg.

Trifolium alexandrinum Linn.
Sclerotium Rolfsii Sacc.

Trifolium tomentosum Linn.
Uromyces Trifolii (Hedw. f.) Lev.

Trifolium sp.
? Pseudopeziza Trifolii (Biv.-Bern.) Fuck.

Viborgia armata Harv.
=Wiborgia armata Harv.

Viborgia obcordata Thunb.
=Wiborgia obcordata Thunb.

Vicia Faba Linn.
Uromyces Fabae (Pers.) de Bary
Botrytis Fabae Sard.
Oidium sp.
Macrosporium sp.
Sclerotium Rolfsii Sacc.

Vigna angustifolia Benth.
=Sphenostylis angustifolia Sond.

Vigna luteola (Jacq.) Benth.
Synchitrium Dolichi (Cooke) Gaumann

Vigna marginata Benth.
=Sphenostylis marginata E. Mey.

Vigna sinensis Endl.
=Vigna unguiculata Endl.

Vigna stenophylla Burtt Davy
Uromyces Vignae Barcl.

Vigna triloba (Thunb.) Walp.
Synchitrium Dolichi (Cooke) Gaumann

Vigna unguiculata Endl.
Rhizopus nigricans Ehrhenb.
Uromyces Vignae Barcl.
Corticium vagum Berk. & Curt.
Ascochyta Pisi Lib.
Diplodia Vignae Sacc.
Septoria Vignae P. Henn.
Colletotrichum lindemuthianum (Sacc. & Magn.) Br. & Cav.
Oidium sp.
Cladosporium Vignae Rac.
Cercospora cruenta Sacc.

Vigna vexillata Benth.
Oidium sp.

Vigna sp. indet.
Uromyces Vignae Barcl.

Virgilia oroboides (Berg) Salter
Tremella lutescens Pers. ex Fr.
Fomes geotropus Cooke
Fomes rymosus (Berk.) Cooke

Voandzeia subterranea Thouars
Oidium sp.

Wiborgia armata Harv.
Aecidium Viborgiae P. Henn.

Wiborgia obcordata Thunb.
Aecidium Viborgiae P. Henn.

Wisteria sinensis Sweet
Hendersonia Wistariae Cooke

Zornia tetraphylla Mich.

Puccinia Zorniae (Diet.) MacAlp.

Leguminosae indet.

Meliola Indigoferae Syd.
Schneepia radiata Doidge
Phyllachora circinata (Kalchbr. & Cooke) Theiss. & Syd.
Ravenelia Woodii Pazschke
Polyporus gilvus (Schw.) Fr.

GERANIACEAE.

Erodium moschatum L'Hér.

Oidium sp

Monsonia attenuata Harv.

Puccinia Monsoniae (Syd.) Doidge

Monsonia biflora DC.

Puccinia Monsoniae (Syd.) Doidge

Monsonia brevirostrata R. Knuth

Puccinis Monsoniae (Syd.) Doidge

Monsonia spp. indet.

Puccinia Monsoniae (Syd.) Doidge

Pelargonium aconitiphyllum E. & Z.

Puccinia granularis Kalchbr. & Cooke

Pelargonium alchemilloides (Linn.) Ait.

Puccinia granularis Kalchbr. & Cooke

Pelargonium amatymbicum E. & Z.

Puccinia granularis Kalchbr. & Cooke

Pelargonium angulosum Ait.

Septoria Pelargonii Syd.

Pelargonium Burtoniae L. Bolus

Puccinia granularis Kalchbr. & Cooke

Pelargonium cordatum L'Hen

Pestalotia Pelargonii Laughton

Pelargonium cucullatum (Linn.) Ait.

Puccinia granularis Kalchbr. & Cooke
Septoria Pelargonii Syd.

Pelargonium hirsutum (Berm. f.) Ait. var. **melananthum** Harv.
Puccinia granularis Kalchbr. & Cooke

Pelargonium hortorum Bailey
Puccinia Pelargonii-zonalis Doidge

Pelargonium longifolium (Burm. f.) Jacq
Puccinia granularis Kalchbr. & Cooke

Pelargonium tabulare (Linn.) L'Herit.
Puccinia granularis Kalchbr. & Cooke

Pelargonium triste (Linn.) Ait.
Puccinia granularis Kalchbr. & Cooke

Pelargonium zonale (Linn.) Ait.
Cyphella Pelargonii Kalchbr.

Pelargonium spp. indet.
Puccinia granularis Kalchbr. & Cooke
Septoria Pelargonii Syd.
Oidium sp.
Sporotrichum epiphyllum Link
Fusarium javanicum Koord. var. radicicola Wollenw.

OXALIDACEAE.

Oxalis Bowiei Lindl.
Aecidium Oxalidis Thuem.

Oxalis breviscapa Jacq.
Aecidium Oxalidis Thuem.

Oxalis cernua Thunb.
Peronospora Oxalidis Verw. & du Pless.

Oxalis corniculata Linn.
Puccinia Maydis Bereng. (I)

Oxalis lanata Linn. f.
Aecidium Oxalidis Thuem.

Oxalis obliquifolia Steud.
Aecidium Oxalidis Thuem.

Oxalis obtusa Jacq.
Aecidium Oxalidis Thuem.

Oxalis purpurea Linn.

Aecidium Oxalidis Thuem.

Oxalis spp. indet.

Peronospora Oxalidis Verw. & du Pless.
Phomopsis oxalina (Ell. & Everh.) Syd.

TROPAEOLACEAE.

Tropaeolum majus Linn.

Pythium ultimum Trow
Leveillula taurica (Lév.) Arn.
Pleospora Tropaeoli Halst.
Fusarium Solani (Mart.) Appel. & Wollenw.

LINACEAE.

Linum africanum Linn.

Melampsora Lini (Ehrhenb) Lév.

Linum usitatissimum Linn.

Melampsora Lini (Ehrhenb) Lév.
Fusarium Lini Bolley

ZYGOPHYLLACEAE.

Augea capensis Thunb.

Uredo Augeae Pole Evans

Zygophyllum foetidum Schrad

Uromyces Trollipi Kalchbr. & MacOwan

Zygophyllum orbiculatum Welw.

Naevia rotundata Wain.

Zygophyllum sp. indet.

Uromyces Trollipi Kalchbr. & MacOwan

RUTACEAE.

Barosma scoparia E. & Z.

Meliola microthecia Theum.

Calodendron capense Thunb.

Polyporus gilvus (Schw.) Fr.

Citrus aurantifolia Swingle

Diaporthe Citri (Fawc.) Wolf.
Phomopsis Citri Fawc.
Alternaria Citri Ell. & Pierce

Citrus aurantium Linn.

Sphaceloma Fawcetti Jenkins
Coniothe ium scabrum McAlp.

Citrus Limonia Osbeck

Phytophthora citrophthora (R. E. & E. H. Sm.) Leon.
Capnodium salicinum Mont.
Sclerotinia sclerotiorum (Lib.) de Bary
Glomerella cingulata (Stonem.) Spauld. & v. Schrenk
Mycosphaerella gibelliana Passer.
Septobasidium Carestianum Bres. var. natalensis Couch
Trametes Meyenii (Klotzsch) ? Lloyd
Macrophomina Phaseoli (Maubl.) Ashby
Phoma citricarpa McAlp.
Phomopsis Citri Fawc.
Diplodia natalensis Pole Evans
Septoria Citri Passer.
Colletotrichum gloeosporioides Penz.
? Gloeosporium limetticolum Claus.
Aspergillus niger v. Tiegh.
Aspergillus ochraceus (series) near Aspergillus melleus Yukawa
Botrytis cinerea Pers.
Penicillium digitatum Sacc.
Penicillium italicum Wehm.
Sphaceloma Fawcetti Jenkins
Sporotrichum Citri Butler
Trichoderma lignorum (Tode) Harz
Alternaria Citri Ellis & Pierce
Alternaria tenuis Nees
Coniothecium Citri McAlp.
Fusarium angustum Sherb.
Fusarium lateritium Nees
Fusarium lateritium Nees var. longum Wollenw.
Fusarium Scirpi Lamb. & Fautr.
Fusarium semitectum Berk & Rav. var. majus Wollenw.
Fusarium Solani (Mart.) Appel & Wollenw.
Fusarium Solani (Mart.) var. Martii (Appel & Wollenw.) f. l. Wollenw.
Fusarium vasinfectum Atk. f. 2. Wollenw. & Reinking
Rhizoctonia spp.

Citrus maxima Merr.

Phytophthora cactorum (Leb. & Cohn) Schroet.
Phytophthora citrophthora (R. E. & E. H. Sm.) Leon
Hypomyces Ipomoeae (Halst.) Wollenw.
Sclerotinia sclerotiorum (Lib.) de Bary
Capnodium salicinum Mont.
Glomerella cingulata (Stonem.) Spauld. & v. Schrenk.
Valsaria Eucalypti (Kalchbr. & Cooke) Sacc.
Stomiopeltis Citri Bitanc.
Septobasidium Carestianum Bres. var. natalense Couch
Septobasidium pseudopedicellatum Burt.
Phoma citricarpa McAlp.

Phomopsis Citri Fawc.
Botryodiplodia Theobromae Pat.
Diplodia aurantii Catt.
Diplodia natalensis Pole Evans
Colletotrichum gloeosporioides Penz.
Penicillium digitatum Sacc.
Penicillium italicum Wehm.
Sphaceloma Fawcetti Jenkins
Fusarium Scirpi Lamb & Fautr.
Fusarium Solani (Mart.) Appel & Wollenw.
Fusarium moniliforme Sheld.
Fusarium Solani (Mart.) var. Martii (Appel & Wollenw.) f. l. Wollenw.
Rhizoctonia lamellifera Small

Citrus nobilis Lour. var. **deliciosa** Swingle

Phytophthora citrophthora (R. E. & E. H. Sm.) Leon.
Capnodium salicinum Mont.
Diatrypella natalensis Doidge
Phoma citricarpa McAlp.
Diplodia natalensis Pole Evans
Colletotrichum gloeosporioides Penz.
Gliocladium penicilloides Corda
Penicillium digitatum Sacc.
Penicillium italicum Wehm.
Sphaceloma Fawcetti Jenkins
Alternaria Citri Ellis & Pierce
Alternaria tenuis Nees
Epicoccum purpurascens Ehrhenb.
Fusarium Scirpi Lamb. & Fautr.

Citrus Paradisi Macf.

"Grape fruit"; a horticultural race of **Citrus maxima** Merr. here listed under the latter species.

Citrus sinensis Osbeck

Rhizopus nigricans Ehrhenb.
Phytophthora citrophthora (R. E. & E. H. Sm.) Leon.
Phytophthora Syringae Kleb.
Pythium irregulare Buism.
Pythium ultimum Trow
Auerswaldia examinans (Mont. & Berk.) Sacc.
Sporormia minima Auersw.
Sporormia setosa Wint.
Capnodium salicinum Mont.
Pleospora disrupta McAlp.
Pleospora herbarum (Pers.) Rabenh.
Glomerella cingulata (Stonem.) Spauld. & v. Schrenk.
Diatrypella Morganae Doidge
Diatrypella natalensis Doidge
Eutypella citricola Syd.
Peroneutypella infinitissima (Kalchbr. & Cooke) Doidge
Botryosphaeria Ribis (Tode ex Fr.) Gross. & Dugg.

Daldinia concentrica (Bolt. ex Fr.) Ces. & de Not.
Stomiopeltis Citri Bitanc.
Stictis radiata Pers. ex Fr.
Septobasidium Carestianum Bres. var. natalense Couch
Septobasidium pseudopedicillatum Burt
Daedalea Eatoni Berk.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Polystictus hirsutus (Wulf ex Fr.) Fr.
Polystictus occidentalis (Klotzsch) Fr.
Trametes cervina (Schw.) Bres.
Armillaria mellea (Vahl ex Fr.) Quél.
Macrophomina Phaseoli (Maubl.) Ashby
Phoma citricarpa McAlp.
Phoma flaccida McAlp.
Phomopsis Citri Fawc.
Phyllosticta hesperidearum Penz.
Phyllosticta sp.
Haplosporella hesperidica Speg.
Ascochyta citricola McAlp.
Botryodiplodia Theobromae Pa.
Diplodia Aurantii Catt.
Diplodia natalensis Pole Evans
Diplodia sarmentorum Fr.
Hendersonula toruloidea Nattrass
Septoria Citri Pass.
Sirothecium Citri Bitanc.
Colletotrichum gloeosporioides Penz.
Pestalotia sp. near Pestalotia Guepini Desm.
Aspergillus niger v. Tiegh.
Aspergillus sp.
Botrytis cinerea Pers.
Gliocladium deliquescens Sopp.
Oospora Citri-aurantii Ferraris
Paecilomyces varioti Bain.
Penicillium acidoferum Sopp.
Penicillium digitatum Sacc.
Penicillium digitatum Sacc. var. californicum Thom
Penicillium italicum Wehm
Penicilliuim luteum (series)
Penicillium verrucosum Dierckx
Penicillium spp.
Sphaceloma Fawcetti Jenkins
Trichoderma lignorum (Tode) Harz
Trichothecium roseum Link
Memnoniella echinata (Riv.) Gall.
Nigrospora Oryzae (Berk. & Br.) Petch
Nigrospora sphaerica (Petch) Sacc.
Periconia pycnospora Fres.
Stachybotrys subsimplex Cooke emend. Bisby
Cladosporium herbarum Link
Cordana sp.
Curvularia intermedia Boedijn
Curvularia lunata (Wakker) Boedijn

Curvularia maculans (Bancroft) Boedijn
Alternaria Citri Ellis & Pierce
Alternaria tenuis Nees
Alternaria sp.
Coniothecium Citri McAlp.
Coniothecium scabrum McAlp.
Macrosporium Citri MaAlp.
Volutella sp.
Fusarium angustum Sherb.
Fusarium bulbigenum Cooke & Mass.
var. Lycopersici (Brushi) Wollenw. & Reinking

Fusarium decemcellulare Brick
Fusarium diversisporum Sherb.
Fusarium Equiseti (Corda) Sacc.
Fusarium lateritium Nees
Fusarium lateritium Nees var. longum Wollenw.
Fusarium lateritium Nees var. majus Wollenw.
Fusarium moniliforme Sheld.
Fusarium moniliforme Sheld. var. subglutinans Wollenw.
Fusarium orthoceras Appel & Wollenw.
Fusarium oxysporum Schlecht.
Fusarium sambucinum Fuck.
Fusarium sambucinum Fuck. f. 2. Wollenw.
Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Faurt. var. compactum Wollenw.
Fusarium semitectum Berk. & Rav., var. majus Wollenw.
Fusarium Solani (Mart.) Appel & Wollenw.
Fusarium Solani (Mart.) var. Martii (Appel. & Wollenw.) f. 1. Wollenw.
Fusarium stilboides Wollenw.
Fusarium vasinfectum Atk. f. 2. Wollenw. & Reiuking
Epicoccum granulatum Lenz
Myrothecium verrucaria Alb. & Schw.
Rhizoctonia lamellifera Small

Citrus spp. indet.

Phytophthora citrophthora (R. E. & E. H. Sm.) Leon.
Pythium aphanidermatum (Eds.) Fitz.
Capnodium salicinum Mont.
Ganoderma applanatum (Pers.) Pat.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Trametes Meyenii (Klotzsch) ? Lloyd
Armillaria mellea (Vahl ex Fr.) Quél.
Diplodia natalensis Pole Evans
Colletotrichum gloeosporioides Penz.
Torula herbarum Link
Alternaria Citri Ellis & Pierce
Macrosporium Citri McAlp.
Fusarium avenaceum (Fr.) Sacc. f. 1. Wollenw. & Reinking

Clausena anisata (Willd.) Hook. f.

Asterina clausenicola Doidge

Clausena inaequalis Benth. var. *abyssinica* Engl.
=Clausena anisata (Willd.) Hook. f.

Fagara capensis Thunb.
Meliola Toddaliae Doidge
Stereum involutum Klotzsch ex Fr.
Hexagona tenuis (Hook.) Fr.
Polyporus gilvus (Schw.) Fr.
Lentinus stuppeus Klotzsch

Fagara Davyi Verdoorn
Meliola Toddaliae Doidge
Puccinia Fagarae Doidge

Fagara magalismontana Engl.
Meliola Toddaliae Doidge
Rhynchosphaeria Fagarae Doidge

Poncirus trifoliata Raf.
Diplodia natalensis Pole Evans

Teclea natalensis (Sond.) Engl.
Meliola Toddaliae Doidge
Asterinella Tecleae Doidge
Lembosia Wageri Doidge
Phyllachora Tecleae Doidge

Toddalia aculeata Pers.
=Toddalia asiatica Lamk.

Toddalia asiatica Lamk.
Puccinia lemanensis Doidge

Toddalia lanceolata Lamk.
=Vepris lanceolata G. Don.

Toddalia natalensis Sond.
=Teclea natalensis (Sond.) Engl.

Vepris lanceolata (Lamk.) G. Don.
Meliola Toddaliae Doidge
Asterina Vepridis Doidge
Puccinia kentaniensis Pole Evans
Stereum Schomburgkii Berk.

Xanthoxylon capense Harv.
=Fagara capensis Thunb.

Xanthoxylon sp. indet.
Puccinia Fagarae Doidge

SIMARUBACEAE.

Kirkia Wilmsii Engl.
Cytospora sp.

BURSERACEAE.

Balsamodendron opobalsamum Kunth.
Oidium sp.

Commiphora caryaefolia Olic.
Uredo Balsamodendri Cooke

Commiphora sp. indet.
Uromyces paradoxus Syd.

MELIACEAE.

Cedrela odorata Linn.
Armillaria mellea (Vahl ex Fr.) Quél.

Cedrela Toona Roxb.
Armillaria mellea (Vahl ex Fr.) Quél.

Cedrela sp. indet.
Trametes albotexta Lloyd

Ekebergia capensis Sparm.
Corticium armeniacum Sacc.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Fomes Robinsoniae (Murr.) Sacc. & Trott.

Ekebergia pterophylla Hofmeyr
Irene Ekebergiae Doidge

Ekebergia spp. indet.
Aecidium sp.
Cercosporella Ekebergiae Syd.

Khaya nyassica Stapf
Fomes rimosus (Berk.) Cooke

Melia Azedarach Linn.
Auricularia polytricha (Mont.) Sacc.
Fomes conchatus (Pers. ex Fr.) Gillet.
Fomes lividus (Kalchbr.) Cooke
Fomes rimosus (Berk.) Cooke

Ganoderma applanatum (Pers.) Pat.
Trametes Proteus (Berk.) Fr.
Septoria Meliae Syd.

Melia dubia Cav.

Armillaria mellea (Vahl ex Fr.) Quél.

Ptaeroxylon obliquum (Thunb.) Radlk.

Meliola Ptaeroxyli Doidge
Fomes glaucoporus Lloyd
Fomes rimosus (Berk.) Cooke
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Trametes incondita Fr.

Ptaeroxylon utile E. & Z.

=Ptaeroxylon obliquum (Thunb.) Radlk.

Trichilia Dregeana E. Mey.

Cocconia concentrica Syd.

Trichilia emetica Vahl

Meliola sinuosa Doidge
Cocconia concentrica Syd.
Asterina Trichiliae Doidge
Polyporus Trichiliae v. d. Byl

Trichilia sp. indet.

Armillaria mellea (Vahl ex Fr.) Quél.

MALPIGHIACEAE.

Acridocarpus natalitius Juss.

Meliola Acridocarpi Doidge

POLYGALACEAE

Polygala Ohlendorfiana E. & Z.

Uredo Polygalae Kalchbr.

Polygala speciosa Sim

Fusarium angustum Sherb.

Polygala sp. indet.

Uredo Polygalae Kalchbr.

EUPHORBIACEAE.

Acalypha angustata Sond.

Erysiphe Jatrophae Doidge
Puccinia Acalyphae Doidge
Puccinia Evansii P. Henn.
Aecidium acalyphicolum Doidge

Acalypha ciliata Forsk.

Uncinula Eylesii Doidge

Acalypha decumbens Thunb.

Asterina radio-fissilis (Sacc.) Theiss.
Puccinia Evansii P. Henn.

Acalypha penduncularis E. Mey.

Aecidium acalyphicolum Doidge

Acalypha petiolaris Hochst.

Cercospora transvaalensis Syd.

Acalypha punctata Meisn.

Puccinia Evansii P. Henn.

Acalypha spp. indet.

Puccinia Evansii P. Henn.

Aleurites Fordii Hemsl.

Septobasidium sp. near Septobasidium Curtisii (Berk. & Desm.) Boed. & Steinm.
Botryodiplodia Theobromae Pat.
Diplodia natalensis Pole Evans

Aleurites montana (Lour.) Wilson

Macrophomina Phaseoli (Maubl.) Ashby

Cluytia daphnoides Lam.

Uromyces Strauchii Doidge

Cluytia Galpini Pax

Uromyces Cluytiae Kalchbr. & Cooke

Cluytia hirsuta E. Mey.

Uromyces Cluytiae Kalchbr. & Cooke

Cluytia monticola S. Moore

Uromyces Cluytiae Kalchbr. & Cooke

Cluytia pulchella Linn.

Meliola Cluytiae v. d. Byl
Uromyces Cluytiae Kalchbr. & Cooke
Cercospora Cluytiae Kalchbr. & Cooke

Cluytia virgata Pax & K. Hoffm.

Aecidium Cluytiae Doidge

Cluytia sp. indet.
Uromyces Cluytiae Kalchbr. & Cooke

Croton gratissimum Burch.
Schroeteriaster Doidgeae Syd.

Croton rivularis Muell.
Asterina crotoniensis (Doidge) Ryan

Croton sylvaticus Hohst.
Phyllachora Crotonis (Cooke) Sacc.
Schroeteriaster stratosus (Cooke) Syd.

Croton sp. indet.
Daldinia Eschscholzii (Ehrhenb. ex Fr.) Rehm

Ctenomeria capensis (Thunb.) Harv.
Asterina radio-fissilis (Sacc.) Theiss.

Dalechampia capensis Spreng. f.
Asterina radio-fissilis (Sacc.) Theiss.

Drypetes arguta Hutch.
Asterina Excoecariae Doidge

Erythrococca berberidea Prain
Asterina radio-fissilis (Sacc.) Theiss.

Euphorbia crassipes Marloth
Fusarium avenaceum (Fr.) Sacc. f. l. Wollenw. & Reinking
Fusarium Scirpi Lamb. & Fautr.
Fusarium lateritium Nees
Fusarium moniliforme Sheld.

Euphorbia Gueinzii Boiss.
Uromyces natalensis Magn.

Euphorbia heterophylla Linn.
Melampsora Helioscopiae Wint. (sensu lato)

Euphorbia inaequilatera Sond.
Uromyces proëminens (DC.) Lev.

Euphorbia Kraussiana Bernh.
Melampsora Helioscopiae Wint. (sensu lato)

Euphorbia macra Hiern.
Aecidium sp.

Euphorbia mauretanica Linn.

Aecidium Pottsii Doidge

Euphorbia natalensis Bernh.

Aecidium kakelense P. Henn.

Euphorbia prostrata Ait.

Uromyces euphorbiicola (Berk. & Curt.) Tranzsch.

Euphorbia pulcherrima Willd.

Heterochaete andina Pat. & Lagerh.
Botrytis cinerea Pers.
Sphaceloma Poinsettiae Jenkins
Cladosporium herbarum Link

Euphorbia Schinzii Pax

Phragmodothis asperata Syd.

Euphorbia striata Thunb.

Aecidium kakelense P. Henn.
Melampsora Helioscopiae Wint. (sensu lato)

Euphorbia triangularis Desf.

Pleospora Dyeri Doidge
Gloniella natalensis Doidge
Gloeosporium crocatum Sacc.

Euphorbia tuberosa Linn.

Puccinia Euphorbiae P. Henn.

Euphorbia spp. indet.

Peronospora Euphorbiae Tuck
Ascostratum insigne Syd.
Pleomassaria gigantea Syd.
Melampsora helioscopiae Wint. (sensu lato)
Aecidium kakelense P. Henn.
Phoma cyclospora Sacc.
Oidium sp.

Excoecaria caffra Sim

=Sapium Simii O. Ktze.

Fluggea microcarpa Blume

=Fluggea virosa (Roxb.) Baill.

Fluggea virosa (Roxb.) Baill.

Masseeëlla Flueggeae Syd.
Aecidium Fluggeae Doidge

Jatropha natalensis Mull. Arg.
Erysiphe Jatrophae Doidge

Jatropha Woodii O. Ktze.
Erysiphe Jatrophae Doidge

Jatropha Zeyheri Sond.
Erysiphe Jatrophae Doidge

Macaranga capensis Benth.
Englerula Macarangae P. Henn.
Oothecium Macarangae Petrak
Sphaeropsis Mappae Cooke

Manihot utilissima Pohl
Septogloeum Manihotis Zimm.
Cercospora Henningsii Allesch.

Mappa capensis Baill.
=Macaranga capensis Benth.

Pedilanthus tithymaloides Poit.
Oidium sp.

Ricinus communis Linn.
Melampsora Ricini Pass.
Cercospora ricinella Sacc. & Berl.

Sapium reticulatum (Hochst.) Pax
Physalospora Sapii Doidge

Sapium Simii O. Ktze.
Meliola Excoecariae Doidge

Tragia rupestris Sond.
Puccinia Tragiae Cooke

Tragia spp. indet.
Puccinia Tragiae Cooke

BUXACEAE.

Buxus MacOwani Oliv.
Meliola buxicola Doidge

ANACARDIACEAE.

Harpephyllum caffrum Bernh.
Meliola rhoina Doidge

Lannea discolor (Sond.) Engl.

Uredo rhoina Syd.
Phyllosticta Odinae P. Henn. & Evans

Laurophyllus capensis Thunb.

Pestalotia Laurophylli Laughton

Loxostylis alata Spreng.

Meliola Loxostylidis Doidge
Dimeriella Woodii Hansf.

Mangifera indica Linn.

Glomerella cingulata (Stonem.) Spauld. & v. Schrenk.
Chaetopeltopsis sp.
Polyporus gilvus (Schw.) Fr.
Gloeosporium Mangiferae P. Henn.
Pestalotia virgatula Kleb.
Aspergillus niger v. Tiegh.
Oidium Mangiferae Berthal
Rhizoctonia lamellifera Small

Odina discolor Send.

=Lannea discolor (Sond.) Engl.

Rhus crenata Thunb.

Meliola rhoina Doidge

Rhus discolor E. Mey.

Phyllactinia rhoina Doidge

Rhus Gueinzii Sond.

Meliola rhoina Doidge

Rhus laevigata Herb.

=Rhus viminalis Vahl

Rhus longispina E. & Z.

Meliola rhoina Doidge

Rhus lucida Linn.

Echidnodes rhoina Doidge

Rhus MacOwani Schonl.

Meliola rhoina Doidge
Libertella ? Rhois Kalchbr.

Rhus mucronata Thunb.

Echidnodes rhoina Doidge

Rhus mucronata Thunb. var. **villosa**

Meliola rhoina Doidge

Rhus natalensis Bernh.

Meliola rhoina Doidge

Rhus pyroides Burch. var. **transvaalensis** Schon.

Phyllactinia rhoina Doidge

Rhus refracta E. & Z.

Meliola rhoina Doidge

Rhus Schlechteri Diels.

Echidnodes rhoina Doidge

Rhus tomentosa Linn.

Meliola Dummeri Hansf. var. brachyodonta Hansf.
Brachysporium pulviniforme Syd.

Rhus viminalis Vahl

Stereum Kalchbrenneri Sacc.
Fomes Caryophylli (Rac.) Bres.
Fomes McGregori Bres.
Fomes pectinatus (Klotzsch) Gillet
Fomes rimosus (Berk.) Cooke
Fomes senex (Nees & Mont.) Cooke
Ganoderma applanatum (Pers.) Pat.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Gloeoporus dichrous (Fr.) Bres.
Polyporus gilvus (Schw.) Fr.
Trametes devexa Berk.
Trametes Keetii v. d. Byl
Trametes Proteus (Berk.) Fr.
Phyllosticta rhoina Kalchbr. & Cooke
Epistigme nidulans Syd.
Didymosporina africana Syd.

Rhus spp. indet.

Meliola rhoina Doidge
Asterina Peglerae Doidge
Uromyces barbeyanus P. Henn.
Exobasidium hesperidium Maire
Fomes rimosus (Berk.) Cooke
Trametes suaveolens (Linn. ex Fr.) Fr.
Schizophyllum commune Fr.
Tubercularia vulgaris Tode

Schinus molle Linn.

Trametes Proteus (Berk.) Fr.
Gloeosporium sp.

Sclerocarya caffra Sond.

Saccharomyces sp.
Gloeosporium Sclerocaryae Pole Evans
Cercospora caffra Syd.

AQUIFOLIACEAE.

Ilex capensis Sond. & Harv.

=Ilex mitis (Linn.) Radlk.

Ilex mitis (Linn.) Radlk.

Meliola Knysnae Doidge
Asterina Bottomleyae Doidge
Asterina Hendersoni Doidge
Asterina nodosa Doidge
Grammothele mappa Berk. & Curt.

CELASTRACEAE.

Cassine aethiopica Thunb.

Polyrhizon Bewsii Doidge

Cassine capenis Linn.

Meliola Evansii Doidge
Parenglerula MacOwaniana (Thuem.) v. Höhn.
Asterinella dissiliens Syd.

Cassine croceum O. Kuntze

Meliola Evansii Doidge
Asterinella dissiliens Syd.
Tremella ?frondosa Fr.
Fomes rimosus (Berk.) Cooke

Cassine eucleaeformis O. Kuntze

Meliola Evansii Doidge

Cassine Kraussiana Bernh.

Parenglerula MacOwaniana (Thuem.) v. Höhn.
Asterinella dissiliens Syd.

Cassine laurifolium (Harv.) Davison.

Echidnodes durbana (v. d. Byl) Hansf.

Cassine papillosa O. Kuntze

Meliola Evansii Doidge
Parenglerula MacOwaniana (Thuem.) v. Höhn.
Asterinella dissiliens Syd.

Cassine sphaerophylla O. Ktze.

Polyrhizon Bewsii Doidge
Pestalotia Cassinis Laughton
Pestalotia Laughtonae Doidge

Cassine sp. indet.

Asterinella dissiliens Syd.
Fomes rimosus (Berk.) Cooke
Polystictus sanguineus (Linn. ex Fr.) Fr.

Catha edulis Forsk.

Cylcoschizon fimbriatum Doidge

Celastrus spp.

=Gymnosporia spp.

Elaeodendron spp.

=Cassine spp.

Euonymus japonicus Linn f.

Pestalotia neglecta Thuem.

Gymnosporia acuminata Szysz.

Meliola Evansii Doidge
Polyrhizon Celastri Doidge

Gymnosporia albata Sim

Meliola Evansii Doidge
Theissenula Woodiana Doidge
Septobasidium pedicellatum (Schw.) Pat.

Gymnosporia buxifolia Szysz.

Parenglerula MacOwaniana (Thuem.) v. Höhn.
Schiffnerula Gymnosporiae Hansf.
Asterinella dissiliens Syd.
Septobasidium grandispinosum Couch
Clasterosporium Celastri (Thuem.) Sacc.
? Alternaria tenuis Nees
Mystrosporium aterrimum Berk. & Curt.
Cercospora melanochaeta Ell. & Everh.
Exosporium Celastri Kalchbr.

Gymnosporia cordata Sim

Irene gloriosa Doidge

Gymnosporia deflexa Sprague

Septoria Gymnosporiae Syd.

Gymnosporia elliptica Davison
Parenglerula MacOwaniana (Thuem.) v. Höhn.

Gymnosporia fasciculata Loes.
Eudimeriolum Gymnosporiae Hansf.

Gymnosporia Harveyana Loes.
Asterinella dissiliens Syd.

Gymnosporia nemorosa Szysz.
Parenglerula MacOwaniana (Thuem.) v. Höhn.
Schiffnerula Gymnosporiae Hansf.
Asterinella dissiliens Syd.

Gymnosporia peduncularis L. Bolus
Daldinia concentrica (Bolt. ex Fr.) Ces. & deNot.
Asterinella dissiliens Syd.
Tremella hemifoliacea Lloyd
Exidea purpureo-cinèrea MacOwan & Kalchbr.
Daedalea Eatoni Berk.
Fomes Robinsoniae (Murr.) Sacc. & Trott.
Polystictus hirsutus (Wulf ex Fr.) Fr.

Gymnosporia procumbens Loes.
Asterinella dissiliens Syd.
Bulliardella capensis Doidge

Gymnosporia rubra Loes.
Parenglerula MacOwaniana (Thuem.) v. Höhn.

Gymnosporia senegalensis Loes.
Parenglerula MacOwaniana (Thuem.) v. Höhn.
Asterinella dissiliens Syd. var. senegalensis Doidge
Helminthosporium sp.

Gymnosporia spp. indet.
Irene ditricha (Kalchbr. & Cooke) Doidge
Irene speciosa Doidge
Parenglerula MacOwaniana (Thuem.) v. Höhn.
Schiffnerula Gymnosporiae Hansf.
Dimeriella annulata Syd.
Eudimeriolum Gymnosporiae Hansf.
Treubiomyces Celastri Doidge
Asterinella dissiliens Syd.
Microthyriella transvaalensis Doidge
Grammothele mappa Berk. & Curt.
Trametes suaveolens (Linn. ex Fr.) Fr.

Lauridia reticulata E. & Z.
Asterina dissiliens Syd.

Pleurostylia capensis Oliv.

Irene ditricha (Kalchbr. & Cooke) Doidge
Asterinella dissiliens Syd.
Scolecopeltis Strauchii Dodige
Fomes rimosus (Berk.) Cooke

Pseudocassine transvaalensis (Burtt Davy) Bredell

Asterinella dissiliens Syd.

Pterocelastrus Galpini Loes.

Polyrhizon Pterocelastri Doidge
Asterinella Pterocelastri Doidge

Pterocelastrus tricuspidatus Sond.

Meliola Evansii Doidge
Leptosphaeria Pterocelastri Doidge
Asterinella Pterocelastri Doidge
Phycopsis africana Syd.
Ganoderma applanatum (Pers.) Pat.
Colletotrichum Pterocelastri Wakef.
Pestalotia Pterocelastri Laughton

Putterlickia pyracantha Endl.

Asterinella dissiliens Syd.

Putterlickia verrucosa Szysz.

Asterinella dissiliens Syd.

Putterlickia sp. indet.

Parenglerula MacOwaniana (Thuem.) v. Höhn.

Salacia Gerrardi Harv.

Anthostomella Salaciae Doidge

Salacia Kraussii Hochst.

Uredo Celastrineae Cooke & Mass.

HIPPOCRATEACEAE.

Hippocratea Schlechteri Loes.

Meliola Hippocrateae Doidge

ICACINACEAE.

Apodytes dimidiata E. Mey.

Meliola Apodytis v. d. Byl
Meliola campylotricha Syd.
Meliola cladophila Syd.
Fomes geotropus Cooke
Polyporus caesius (Schrad. ex Fr.) Fr.
Rhizoctonia sp.

Cassinopsis capensis Sond.

Anthostomella Cassinopsidis Kalchbr. & Cooke
Sphaerella Cassinopsidis Kalchbr. & Cooke
Diatrype MacOwaniana Thuem.
Cercospora Cassinopsidis Wint.

Cassinopsis tinifolia Harv.

Meliola campylotricha Syd.

Pyrenacantha scandens Planch.

Meliola comata Doidge

SAPINDACEAE.

Allophylus erosus Radlk.

Meliola Allophyli Doidge

Allophylus melanocarpus (Arn.) Radlk.

Meliola furcillata Doidge

Allophylus monophyllus Radlk.

Meliola furcillata Doidge
Trichopeltula kentaniensis Doidge

Atalaya natalensis R. A. Dyer

Meliola Atalayae Doidge

Cardiospermum Helicacabum Linn.

Aecidium Helicacabum Linn.

Cardiospermum microcarpum E. Mey. non H. B. K.

=Cardiospermum Helicacabum Linn.

Deinbollia oblongifolia Radlk.

Meliola Doidgeae Syd.

Dodonaea viscosa Linn.

? Uncinula circinata Cooke & Peck

Hippobromus alatus E. & Z.

=Hippobromus pauciflorus (Linn.) Radlk.

Hippobromus pauciflorus (Linn.) Radlk.

Meliola capensis (Kalchbr. & Cooke) Theiss.

Litchi chinensis Sonn.

Saccharomyces sp.
Pestalotia sp.

Sapindus oblongifolius Sond.
=Deinbollia oblongifolia Radlk.

Schmidelia monophylla Pressl.
=Allophylus monophyllus Radlk.

MELIANTHACEAE.

Bersama lucens (Hochst.) Szysz.
Phyllachora Melianthi (Thuem.) Sacc.

Bersaa Swinnyi Phill.
Phyllachora Melianthi (Thuem.) Sacc.

Bersama Tysoniana Oliv.
Phyllachora Melianthi (Thuem.) Sacc.

Melianthus major Linn.
Phyllachora Melianthi (Thuem.) Sacc.
Sphaerella MacOwaniana Wint.

GREYIACEAE.

Greyia Sutherlandii Hk. & Harv.
Fusicladium fuliginosum Kalchbr. & Cooke

BALSAMINACEAE.

Impatiens balsamina Linn.
Oidum sp.
Cercospora fukushiana (Mats.) Yam.

Impatiens capensis Thunb. non Meerb.
=Impatiens Duthieae L. Bolus

Impatiens Duthiae L. Bolus
Meliola Impatientis Doidge
Aecidium Impatientis-capensis Doidge

Impatiens sp. indet.
Oidium sp.

RHAMNACEAE.

Rhamus prinoides L'Hérit.
Clypeolella rhamnicola Doidge
Endophyllum MacOwani Pole Evans

Scutia Commersoni Brong.
=Scutia myrtina (Burm.) Kurz

Scutia indica Brong.

=Scutia myrtina (Burm.) Kurz

Scutia myrtina (Burm.) Kurz

Nematostigma obducens Syd..
Phragmothyriella parenchymatica Doidge

Zizyphus jujuba Lam.

Coniodictyum Evansii (Magn.) v. Höhn.

Zizyphus mucronata Wolld.

Schiffnerula sp.
Cronartium Zizyphi Syd. & Butl.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Septoria capensis Wint.
Coniodictyum Evansii (Magn.) v. Höhn.
Cercospora Zizyphi Petch

HETEROPYXIDACEAE.

Heteropyxis natalensis Harv.

Asterina van der Bylii Werd.

Heteropyxis ruto-rhamnoides nom. nud.

=Heteropyxis natalensis Harv.

VITACEAE.

Cissus Rhodesiae Gilg. & Brandt.

Aecidium Vitis A. L. Sm.
Cercospora Vitis (Lev.) Sacc.

Cissus zombensis (Bkr.) Gilg. & Brandt

Aecidium Vitis A. L. Sm.

Cissus sp. indet.

Septoria sp.
Cercospora riachueli Speg.

Parthenocissus quinquefolia Planch.

Plasmopora viticola (Berk. & Curt.) Berl. & de Toni

Rhoicissus cuneifolius (E. & Z.) Planch.

? Schiffnerula sp.

Rhoicissus erythrodes Planch.

Cercospora Rhoicissi Syd.

Rhoicissus rhomboideus (E. Mey.) Planch.

Meliola Merrillii Syd.
Skierka robusta Doidge

Vitis vinifera Linn.

Rhizopus nigricans Ehrenb.
Plasmora viticola (Berk. & Curt.) Berl. & de Toni
Kloeckerospora uvarum Niehaus
Uninula necator (Schw.) Burr.
Guignardia Bidwellii Vi. & Rav.
Botryosphaeria Vitis (Schulz) Sacc.
Exobasidium Vitis Prill. & Delacr.
Claudopus proteus Kalchbr.
Dothiorella reniformis Vi. & Rav.
Fusicoccum viticolum Reddick
Phoma flaccida McAlp.
Sphaeropsis malorum Peck
Aspergillus carbonarius (Bain.) Thom.
Aspergillus niger v. Tiegh.
Botrytis cinerea Pers.
Oidium Tuckeri Berk.
Penicillium cyclopium Westling
Penicillium elongatum Dierckx
Penicillium expansum Link. em. Thom
Sphaceloma ampelinum de Bary
Cladosporium Baccae Verw. & Dipp.
Cladosporium spp.
Cercospora leoni Savul & Rayss.
Cercospora Vitis (Lev.) Sacc.
Macrosporium Vitis Sorok.
Fusarium oxysporum Schlecht. var. aurantiacum Wollenw.
Isariopsis Fuckelii (Thuem.) du Pless.

Vitis spp. indet.

Aecidium Vitis A. L. Sm.
Pullularia pullulans (de Bary) Berkh.
Schizophyllum commune Fr.

TILIACEAE.

Corchorus tridens Linn.

Cercospora Corchori Sawada

Corchorus trilocularis Linn.

? Erysiphe communis (Wallr.) Link

Corchorus sp. indet.

Corticium vagum Berk. & Curt.
Rhizoctonia sp.

Grewia caffra Meisn.

Stigmatea Grewiae P. Henn.
Ravenelia atrides Syd.

Grewia flava DC.

Uredo Grewiae Pat. & Har.

Grewia kwebensis N. E. Br.

Ravenelia atrides Syd.

Grewia lasiocarpa E. Mey.

Asterina delicata Doidge

Grewia monticola Sond.

Ravenelia atrides Syd.

Grewia occidentalis Linn.

Phyllachora Grewiae (Kalchbr.) Theiss. & Syd.
Asterina delicata Doidge
Ravenelia atrides Syd.

Sparmannia africana Linn. f.

Septoria Sparmanniae Verw. & du Pless.

Triumfetta Sonderi Ficalho & Hiern

Erysiphe communis (Wallr.) Link

MALVACEAE.

Abutilon angulatum (G. & P.) Mast.

Puccinia Abutili Berk. & Br.

Abutilon indicum (Linn.) Sweet

Puccinia Abutili Berk. & Br.

Abutilon Sonneratianum Sweet

Puccinia Abutili Berk. & Br.

Abutilon sp. indet.

Puccinia Abutili Berk. & Br.

Althea rosea Cav.

Pythium ultimum Trow
Puccinia malvacearum Mont.
Ascochyta parasitica Fautr.
Colletotrichum malvarum Braun. & Casp.

Gossypium spp. indet.

Rhizopus nigricans Ehrenb.
Ashbya Gossypii (Ashby & Nowell) Guill.
Nematospora Coryli Pegl.
Glomerella Gossypii (South.) Edgert.
Mycosphaerella gossypina (Cooke) Atk.

Cerotelium Gossypii Arth.
Macrophomina Phaseoli (Maubl.) Ashby
Phyllosticta gossypina Ell. & Mart.
Colletotrichum Gossypii (South.) Edgert.
Pestalotia ? Gossypii Hori
Pestalotia sp.
Acremoniella sp.
Verticillium alboatrum Reinke & Berth.
Cercosporella Gossypii Speg.
Cladosporium herbarum Link
Alternaria gossypina (Thuem.) Hopkins
Alternaria macrospora Zimm.
Alternaria sp.
Macrosporium nigricantium Atk.
Fumago vagans Pers.
Cercospora gossypina Cooke
Fusarium angustum Sherb.
Fusarium moniliforme Sheld.
Fusarium Scirpi Lamb. & Fautr. var. filiferum (Preuss.) Wollenw.
Fusarium vasinfectum Atk.
Epicoccum purpurascens Ehrenb.
Rhizoctonia Solani Kuhn.
Sclerotium Rolfsii Sacc.

Hibiscus asper Hk. f.

=Hibiscus cannabinus Linn.

Hibiscus cannabinus Linn.

Aecidium Garckeanum P. Nenn.
Cercospora mayalensis Stev. & Solh.

Hibiscus esculentus Linn.

Phyllosticta hibiscina Ell. & Everh.
Oidium abelmoschi Thuem.

Hibiscus pedunculatus Cav.

Asterina diplocarpa Cooke var. Hibisci Doidge

Hibiscus rosa-sinensis Linn.

Phyllosticta idaecola Cooke

Hibiscus Sabdariffa Linn.

Phytophthora parasitica Dast.
Fusarium vasinfectum Atk.

Hibiscus tiliaceus Linn.

Phyllachora minuta P. Henn.
Hexagona tenuis (Hook.) Fr.
Pleurotus ostreatus (Jacq. ex Fr.) Quél.

Hibiscus spp. indet.
Pythium acanthicum Drechsl.
Pythium splendens Braun
? Puccinia heterospora Berk. & Curt.
Lentinus flabelliformis (Bolt. ex Fr.) Fr.
Phyllosticta sp. indet.

Malva parviflora Linn.
Puccinia Malvacearum Mont.

Malva rotundifolia Linn.
Puccinia Malvacearum Mont.

Malvastrum grossulariaefolium Gray & Harv.
Puccinia Malvacearum Mont.

Sida cordifolia Linn.
Asterina diplocarpa Cooke
Puccinia heterospora Berk. & Curt.
Oidium sp.

Sida Dregei Burtt Davy
Puccinia heterospora Berk. & Curt.

Sida Hislopii Burtt Davy & Gr.
Asterina Pavoniae Werd.

Sida Hoepfneri Gurke
Puccinia heterospora Berk. & Curt.

Sida longipes E. Mey.
=Sida Dregei Burtt Davy

Sida rhombifolia Linn.
Asterina diplocarpa Cooke
Puccinia heterospora Berk. & Curt.

STERCULIACEAE.

Cola acuminata Schott. & Endl.
Phyllosticta Colae Verw. & du Pless.

Cola natalensis Oliv.
Hysterostoma Colae Hansf.

Dombeya Burgessiae Gerr.
Phyllachora Burgessiae Doidge

Dombeya cymosa Harv.
Oidum sp.

Dombeya natalensis Sond.

Uredo Dombeyae Doidge

Dombeya pulchra N. E. Br.

Phyllachora Burgessiae Doidge
Phyllachora Dombeyae Syd.

Dombeya rotundifolia (Hochst.) Harv.

Phyllachora Dombeyae Syd.

Dombeya sp. indet.

Fomes rimosus (Berk.) Cooke
Oidium sp.

Firmiana simplex Wight

Ashbya Gossypii (Ashby & Nowell) Guill.

Hermannia sp. indet.

Oidium sp.

Sterculia sp. indet.

Tryblidaria Breutelii Rehm.

Theobroma Cacao Linn.

Colletotrichum brachytrichum Del.
Phyllosticta Theobromae Alm. & Cam.

DILLENIACEAE.

Dillenia indica Linn.

Botryodiplodia Theobromae Pat.

OCHNACEAE.

Ochna arborea Burch.

Cocconia capeniss Doidge

Ochna Holstii Engl.

Phyllachora microstegia Syd.

Ochna natalitia Engl. & Gilg.

Meliola Ochnae Doidge

Ochna O'Connorii Phillips

Meliola Ochnae Doidge
Phyllachora microstegia Syd.

Ochna pulchra Hook.

Ophiodothella Liebenbergii Doidge

GUTTIFERAE.

Garcinia Livingstonei T. And.

Polystictus sanguineus (Linn. ex Fr.) Fr.

Psorospermum sp. indet.

Pestalotia sp.

THEACEAE.

Camellia japonica Linn.

Pleospora Camelliae Dipp.
Colletotrichum Camelliae Mass.
Monochaetia Camelliae Mill.
Pestalotia Guepini Desm.
Macrosporium Camelliae Cooke & Mass.

Thea sinensis Linn.

Mycosphaerella Theae Shaw
Armillaria mellea (Vahl ex Fr). Quél.
Botryodiplodia Theobromae Pat.
Colletotrichum Camelliae Mass.
Pestalotia Theae Shaw

HYPERICACEAE.

Hypericum aethiopicum Thunb.

Melampsora Hypericorum Wint. var. australis Doidge

Hypericum Lalandii Choisy

Melampsora Hypericorum Wint. var. australis Doidge
Puccinia Hyperici Doidge

Hypericum leucoptychodes Sond.

Uredo Hyperici-leucoptychodes Doidge

Hypericum natalense Wood & Evans

Uromyces Hyperici-frondosi (Schw.) Arth.

Hypericum Sonderi Bredell

Melampsora Hypericorum Wint. var. australis Doidge

DIPTEROCARPACEAE.

Monotes africanus (Welw.) A. DC.

Gorgoniceps kuitoënsis P. Henn.

Monotes dasyanthus Gilg.

Baumiella caespitosa P. Henn.

Monotes glaber Sprague

Baumiella caespitosa P. Henn.

VIOLACEAE.

Rinorea ardesiaeflora Welw.
=Rinorea natalensis Engl.

Rinorea natalensis Engl.
Irene Rinoreae Doidge
Asterina Rinoreae Doidge

Viola abyssinica Steud.
Asterina undulata Doidge

Viola odorata Linn.
Phyllosticta Violae Desm.
Sphaceloma Violae Jenkins
Alternaria Violae Gall. & Dors.
Cercospora Violae Sacc.
Sclerotium Rolfsii Sacc.

Viola tricolor Linn.
Erysiphe cichoracearum DC.
Cercospora Violae Sacc.
Rhizoctonia sp.

FLACOURTIACEAE.

Aberia caffra Harv. & Sond.
=Dovyalis caffra Warb.

Dovyalis caffra Warb.
Phyllachora Aberiae P. Henn.

Dovyalis rhamnoides Harv.
Irene natalensis Doidge
Phyllachora Aberiae P. Henn.
Diatrype Dovyalidis Doidge
Palwania Dovyalidis (Doidge) Nel

Dovyalis rotundifolia Harv.
Irene natalensis Doidge

Dovyalis Zeyheri Warb.
Cercospora Dovyalidis Chupp & Doidge

Dovyalis zizyphoides E. Mey.
=Dovyalis rhamnoides Harv.

Dovyalis spp. indet.
Phyllachora Aberiae P. Henn.
Coryneum Dovyalidis v. d. Byl

Homalium sp.

Daldinia concentrica (Bolt. ex Fr.) Ces. & de Not.
Polystictus sanguineus (Linn. ex Fr.) Fr.
Poria contigua (Pers. ex Fr.) Cooke.

Kiggelaria africana Linn.

Asterina africana (v. d. Byl) Doidge var. Kiggelariae Doidge
Fomes pectinatus (Klotzsch) Gillet
Fomes rimosus (Berk.) Cooke
Cercospora Kiggelariae Syd.

Kiggelaria sp.

Nectria coccinea (Pers.) Fr.

Oncoba sp. indet.

Meliola claviculata Doidge
Asterina africana (v. d. Byl) Doidge

Rawsonia lucida Harv. & Sond.

Lembosina Rawsoniae Doidge

Scolopia Mundtii Warb.

Irene natalensis Doidge
Meliola Scolopiae Doidge
Asterina Scolopiae Doidge
Asterina uncinata Doidge
Microthyrium ranulisporum Doidge
Fomes Caryophylli (Rac.) Bres.
Fomes connatus (Fr.) Gillet
Fomes McGregori Bres.
Fomes rimosus (Berk.) Cooke
Ganoderma applanatum (Pers.) Pat.
Polyporus gilvus (Schw.) Fr.
Polyporus Patouillardii (Rick) Theiss

Scolopia Zeyheri (Szysz.) Nees

Meliola Scolopiae Doidge
Asterina Scolopiae Doidge
Gamoderma lucidum (Leyss. ex Fr.) Karst.

Scolopia Zeyheri (Szysz.) Nees var. **spinosa**

Asterina Scolopiae Doidge

Scolopia sp. indet.

Meliola Scolopiae Doidge

Trimeria alnifolia Planch.

=Trimeria grandifolia (Hochst.) Warb.

Trimeria grandifolia (Hochst.) Warb.
Asterina Grewiae Cooke

Trimeria trinervis Harv.
Asterina Grewiae Cooke var. zonata Doidge

Xylotheca Kraussiana Hochst.
Asterina africana (v. d. Byl) Doidge

PASSIFLORACEAE.

Adenia sp. indet.
Cytoplea Adeniae du Pless.

Passiflora edulis Sims
Glomerella cingulata (Stonem.) Spauld. & v. Schrenk.
Gloeosporium Passiflorae Speg.
Phoma Passiflorae Penz. & Sacc.
Septoria fructigena Berk. & Curt.
Nigrospora Panici Zimm.
Cladosporium herbarum Link
Cordana pauciseptata Preuss.
Fusarium oxysporum Schlecht.

Passiflora quadrangularis Linn.
Phoma Passiflorae Penz. & Sacc.
Septoria fructigena Berk. & Curt.
Aspergillus sp.
Macrosporium sp.

Passiflora quitensis ? Hort.
Septoria fructigena Berk. & Curt.

Passiflora sp. indet.
Ovulariopsis Passiflorae Syd.
Trichothecium roseum Link

CARICACEAE.

Carica Papaya Linn.
Pythium aphanidermatum (Eds.) Fitz.
Pythium irregulare Buisman
Pythium myriotylum Drehsl.
Pythium splendens Braun
Pythium vexans de Bary
Pythium ultimum Trow
Neocosmospora vasinfecta E. F. Sm.
Phomopsis Papayae Frag. & Cif.
Phyllosticta Caricae-Papayae Allesch.
Ascochyta Caricae Pat.
Ovulariopsis Papayae v. d. Byl
Penicillium digitatum Sacc.

Cladosporium herbarum Link
Macrosporium commune Rabenh.
Fusarium bulbigenum Cooke & Mass.
var. Lycopersici (Brushi) Wollenw. & Reinking
Fusarium Solani (Mart.) Appel & Wollenw.
Fusarium Solani (Mart.) Appel & Wollenw. var. Martii (App. & Wollenw.)
f. 1. Wollenw.

Fusarium lateritium Nees.
Fusarium oxysporum Schlecht.
Fusarium Scirpi Lamb. & Fautr.
Fusarium stilboides Wollenw.
Rhizoctonia sp.

BEGONIACEAE.

Begonia sp. indet.

Phyllosticta Begoniae Brun.

CACTACEAE.

Opuntia sp. indet.

Didymosphaeria opulenta (deNot.) Sacc.

OLINIACEAE.

Olinea cymosa Thunb.

Asterina reticulata Kalchbr. & Cooke emend. Doidge
Tremella ? frondosa Fr.
Tremella lutescens Pers. ex Fr.
Stereum Kalchbrenneri Sacc.
Stereum vellereum Berk.
Schizophyllum commune Fr.
Cercospora Oliniae Verw. & Dipp.

Olinia emarginata Burtt Davy

Asterina reticulata Kalchbr. & Cooke emend. Doidge

Olinia radiata Hofmeyr & Phill.

Asterina reticulata Kalchbr. & Cooke emend. Doidge

Olinia sp. indet.

Asterina reticulata Kalchbr. & Cooke emend. Doidge

THYMELEACEAE.

Gnidia microcephala Meisn.

Puccinia Gnidiae Doidge

Peddiea africana Harv.

Irene Peddieae Doidge
Meliola peddieïcola Hansf.
Schiffnerula sp.

Pleomassaria Peddieae Doidge
Stomiopeltella africana Doidge

PUNICACEAE.

Punica Granatum Linn.

Gloeosporium fructigenum Berk.

RHIZOPHORACEAE.

Cassipourea Gerrardi Alston

Hysterostoma microspora Doidge

Cassipourea verticillata N. E. Br.

Scolecopeltis Cassipoureae Doidge

COMBRETACEAE.

Combretum Baumii Engl. & Gilg.

Asterina Combreti Syd.
Uredo longaensis P. Henn.

Combretum erythrophyllum Burch.

=Combretum glomeruliflorum Sond.

Combretum gazense Swyn. & Bak.

Septogloeum bullatum Syd.

Combretum glomeruliflorum Sond.

Asterina Combreti Syd.
Stereum hirsutum (Willd. ex Fr.) Fr.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Polyporus gilvus (Schw.) Fr.
Septogloeum bullatum Syd.

Combretum holosericeum Sond.

Ganoderma lucidum (Leyss. ex Fr.) Karst.

Combretum Kraussii Hochst.

Asterina Combreti Syd.
Polyporus gilvus (Schw.) Fr.

Combretum Zeyheri Sond.

Phyllactinia Combreti Doidge
Uncinula combreticola Doidge
Uredo combreticola Doidge

Combretum spp. indet.

Stereum purpureum (Pers. ex Fr.) Fr.
Polystictus pinsitus Fr.

Terminalia Baumii Engl. & Gilg.
Phyllosticta Terminaliae P. Henn.

Terminalia catappa Linn.
Phyllosticta latospora Verw. & du Pless.

Terminalia sericea Burch.
Marssonina sp.

MYRTACEAE.

Eucalyptus amygdalina Labille
Harknessia uromycoides Speg.

Eucalyptus coriacea A. Cunn.
Lembosiopsis eucalyptina Petr. & Syd.

Eucalyptus corynocalyx F. Meull.
Mycosphaerella Moelleriana (Thuem.) Lindau

Eucalyptus diversicolor F. Muell.
Mycosphaerella Moelleriana (Thuem.) Lindau
Stereum hirsutum (Willd. ex Fr.) Fr.
Lenzites betulina (Linn. ex Fr.) Fr.
Polyporus gilvus (Schw.) Fr.
Pestalotia disseminata Thuem.

Eucalyptus ficifolia F. Muell.
Trametes roseola Pat. & Har.

Eucalyptus gigantea Denhh.
Mycosphaerella Moelleriana (Thuem.) Lindau
Lembosiopsis eucalyptina Petr. & Syd.
Poria vaporaria (Fr.) Cooke
Thyrinula eucalyptina Petr. & Syd.

Eucalyptus globulus Lab.
Mycosphaerella Moelleriana (Thuem.) Lindau
Valsaria Eucalypti (Kalchbr. & Cooke) Sacc.
Lembosiopsis eucalyptina Petr. & Syd.
Stereum hirsutum (Willd. ex Fr.) Fr.
Stereum Kalchbrenneri Sacc.
Lenzites aspera Klotzsch
Lenzites Palisoti Fr.
Polyporus subradiatus Lloyd
Polystictus sanguineus (Linn. ex Fr.) Fr.
Cortinarius multiformis Fr.
Schizophyllum commune Fr.
Thyrinula eucalyptina Petr. & Syd.

Eucalyptus gomphocephala DC.

Polyporus gilvus (Schw.) Fr.

Eucalyptus hemiphloia F. Muell.

Lembosiopsis eucalyptina Petr. & Syd.

Eucalyptus Lehmanii Preiss.

Pestalotia disseminata Thuem.

Eucalyptus macrorhyncha F. Muell.

Lentinus stuppeus Klotzsch

Eucalyptus maculata Hook.

? Mycosphaerella Moelleriana (Thuem.) Lindau

Eucalyptus Maideni F. Muell.

Mycosphaerella Moelleriana (Thuem.) Lindau
Stereum Hirsutum (Willd. ex Fr.) Fr.

Eucalyptus obliqua L'Her.

Lembosiopsis eucalyptina Petr. & Syd.
Polyporus sulphureus (Bull. ex Fr.) Fr.
Lentinus stuppeus Klotzsch

Eucalyptus paniculata Sm.

Stereum hirsutum (Willd. ex Fr.) Fr.
Lenzites Palisoti Fr.
Armillaria mellea (Vahl ex Fr.) Quél.
Lentinus stuppeus Klotzsch

Eucalyptus regnens F. Muell.

Lembosiopsis eucalyptina Petr. & Syd.

Eucalyptus robusta Kl.

Lentinus stuppeus Klotzsch

Eucalyptus rostrata Schlecht.

Polyporus gilvus (Schw.) Fr.

Eucalyptus saligna Sm.

Mycosphaerella Moelleriana (Thuem.) Lindau
Irpex flavus Klotzsch
Macrosporium Eucalypti P. Henn.

Eucalyptus sideroxylon Cunn.

Polyporus gilvus (Schw.) Fr.
Lentinus stuppeus Klotzsch

Eucalyptus Stuartiana F. Muell.

Mycosphaerella Moelleriana (Thuem.) Lindau

Eucalyptus tereticornis Sm.

Mycosphaerella Moelleriana (Thuem.) Lindau

Eucalyptus viminalis Lab.

Cytospora Australiae Speg.

Eucalyptus spp. indet.

Hypocrea sulphurella Kalchbr. & Cooke
Mycosphaerella Moelleriana (Thuem.) Lindau
Sphaerulina Eucalypti Verw. & du Pless.
Lembosiopsis eucalyptina Petr. & Syd.
Exidia purpureo-cinerea MacOwan & Kalchbr.
Guepinia spathularia (Schw.) Fr.
Peniophora cremea (Bres.) Sacc. & Syd.
Peniophora setigera (Fr.) Bres. ex Bourd. & Galz.
Stereum bicolor Fr.
Stereum fasciatum (Schw.) Fr.
Stereum hirsutum (Willd. ex Fr.) Fr.
Stereum transvaalium v. d. Byl
Stereum umbrinum Berk. & Curt.
Irpex deformis Fr.
Irpex flavus Klotzsch
Fomes annosus (Fr.) Gillet
Fomes lividus (Kalchbr.) Cooke
Ganoderma applanatum (Pers.) Pat.
Lenzites betulina (Linn. ex Fr.) Fr.
Lenzites Palisoti Fr.
Polyporus gilvus (Schw.) Fr.
Polyporus pocula (Schw.) Berk. & Curt.
Polyporus subradiatus Lloyd
Polyporus sulphureus (Bull. ex Fr.) Fr.
Polystictus glauco-effusus Lloyd
Polystictus leoninus (Klotzsch) Fr.
Polystictus ochraceus (Pers.) Lloyd
Polystictus sanguineus (Linn. ex Fr.) Fr.
Polystictus subiculoides Lloyd
Polystictus versicolor (Linn. ex Fr.) Fr.
Polystictus vinosus (Berk.) Cooke
Trametes cingulata Berk.
Trametes Proteus (Berk.) Fr.
Crepidotus mollis (Schaehh. ex Fr.) Quél.
Panus stipticus (Bull .ex Fr.) Fr. var. farinaceus (Schum. ex Fr.) Rea
Schizophyllum commune Fr.
Pisolithus tinctorius (Pers.) Coker & Couch
Macrophomina Phaseoli (Maubl.) Ashby
Pestalotia disseminata Thuem.

Eugenia apiculata DC.

Cryptomyces Eugeniacearum (Corda) Sacc.

Eugenia capensis Harv.

Phyllachora Peglerae Doidge
Phyllachora Woodiana Doidge

Eugenia cordata Laws.

=Syzygium cordatum Hochst.

Eugenia Gerrardi Sm.

=Syzygium Gerrardi (Harv.) Hochst.

Eugenia natalitia Sond.

Phyllachora goyazensis P. Henn.
Asterina natalitia Doidge
Echidnodes transvaalensis Doidge
Cryptomyces Eugeniacearum (Corda) Sacc.
Asterostomella eugenicola Doidge.

Eugenia Zeyheri Harv.

Irene Zeyheri Doidge
Phyllachora capensis Doidge
Asterina Zeyheri Doidge
Scolecopeltis Eugeniae Doidge
Fomes badius (Berk.) Cooke

Eugenia zuluensis Dummer

Irene atra Doidge
Meliola cylindripoda Doidge
Phyllachora capensis Doidge
Didymella zuluensis Doidge
Asterina natalitia Doidge
Echidnodes natalensis Doidge

Eugenia spp. indet.

Calonectria leucorrhodina (Mont.) Speg.
Cryptomyces Eugeniacearum (Corda) Sacc.
Panus stipticus (Bull. ex Fr.) Fr. var. farinaceus (Schum. ex Fr.) Rea
Stemphylium Eugeniae Verw. & du Pless.

Myrtus communis Linn.

Cercospora myrticola Speg.

Psidium Guajava Linn.

Botryosphaeria Ribis (Tode ex Fr.) Gross. & Dugg.
& Wilcox var. chromogena Shear, Stev.
Phyllosticta Psidii E. Tassi
Sphaeropsis sp.
Gloeosporium Psidii Del.
Pestalotia Psidii Pat.
Botrytis cinerea Pers.

Syncarpia glomulifera Med.

Armillaria mellea (Vahl ex Fr.) Quél.

Syzygium cordatum Hochst.

Chaetothyrium Syzygii Hansf.
Diplodia variispora Died.
Neobarclaya congesta (Berk. & Br.) Petch
Septogloeum punctatum Wakef.
Tetraploa aristata Berk. & Br.
Pucciniopsis sp.

Syzygium Gerrardi (Harv.) Hochst.

Meliolina arborescens Syd.
Asterina pemphidioides Cooke
Asterina Syzygii Doidge
Fomes rimosus (Berk.) Cooke
Fomes senex (Nees & Mont.) Cooke
Armillaria mellea (Vahl ex Fr.) Quél.

Syzygium guineense (Willd.) DC.

Polyporus gilvus Schw.) DC.
Stagonospora atriplicis (West.) Lind.

Syzygium Legatii Burtt Davy & Greenway

Meliolina arborescens Syd.

Syzygium sp. indet.

Polyporus gilvus (Schw.) Fr.

MELASTOMATACEAE.

Dissotis incana (E. Mey.) Triana

Pucciniosira Dissotidis Wakef.
Cercospora Dissotidis Chupp & Doidge

Dissotis longicaudata Cogn.

Pucciniosira Dissotidis Wakef.

Dissotis princeps (Bonpl.) Triana

Pucciniosira Dissotidis Wakef.

ONAGRACEAE.

Clarkia elegans Dougl.

Phytophthora parasitica Dast.
Pythium ultimum Trow

Epilobium flavescens E. Mey.

Puccinia Krookii P. Henn.

Epilobium hirsutum Linn.

Puccinia Krookii P. Henn.

Godetia spp. cult.

Phytophthora cryptogea Pethybr. & Laff.
Phytophthora parasitica Dast.
Fusarium Solani (Mart.) Appel & Wollenw.

Jussieua suffruticosa Linn. var. **angustifolia** Lam.

Cercospora Jussieuae Atk.

Oenothera biennis Linn.

Uromyces capensis Doidge

Oenothera spp. indet.

Puccinia Oenotherae Vize
Septoria Oenotherae West.

HALORRHAGIDACEAE.

Gunnera perpensa Linn.

Septoria Byliana Syd.

Gunnera sp. indet.

Coniothecium sp.

ARALIACEAE.

Cussonia spicata Thunb.

Meliola leptidea Syd.
Asterina ferruginosa Doidge
Stomiopeltella petiolaris Doidge
Aecidium Cussoniae Kalchbr.

Cussonia umbellifera Sond.

Asterina ferruginea Doidge

Cussonia spp. indet.

Uredo Cussoniae Cooke
Volvaria bombycina (Schaeff. ex Fr.) Quél.

Hedera Helix Linn.

Phyllostictina concentrica (Sacc.) v. Höhn. var. lusitanica Alm.

UMBELLIFERAE.

Alepidea amatymbica E. & Z.

Aecidium albilabrum Kalchbr.

Alepidea capensis (Berg) R. A. Dyer

Aecidium albilabrum Kalchbr.

Alepidea ciliaris (Linn.) de Lar.
=Alepidea capensis (Berg.) R. A. Dyer

Alepidea serrata E. & Z.
Aecidium albilabrum Kalchbr.

Alepidea sp. indet.
Puccinia Alepideae Doidge

Apium graveolens Linn. var. **dulce** DC.
Septoria Apii Chester
Septoria Apii-graveolentis Dorogin
Cercospora Apii Fres.
Rhizoctonia sp.

Daucus carota Linn. var. **sativa** DC.
Phoma Rostrupii Fres. var. Carotae Pass.
Macrosporium Carotae Ell. & Langl.
Cercospora Carotae (Pass.) Solh.
Sclerotium Rolfsii Sacc.

Glia gummifera Sond.
=Ruthea gummfiera (L.) Bolle

Heteromorpha arborescens Cham. & Schlecht.
Uromyces Heteromorphae Thuem.
Caeoma Heteromorphae Doidge
Stereum hirsutum (Willd. ex Fr.) Fr.
Polystictus sanguineus (Linn. ex Fr.) Fr.

Heteromorpha involucrata Conrath.
Uromyces Heteromorphae Thuem.

Heteromorpha pubescens Burtt Davy
Uromyces Heteromorphae Thuem.

Heteromorpha transvaalensis Schltr. & Wolff
Uromyces Heteromorphae Thuem.

Heteromorpha trifoliata E. & Z.
Daldinia Eschscholzii (Ehrenb. ex Fr.) Rehm
Uromyces Heteromorphae Thuem.

Hydrocotyle asiatica Linn.
Septoria nesodes Kalchbr.

Hydrocotyle bonariensis Lam.
Puccinia Hydrocotyles (Link) Cooke

Hydrocotyle verticillata Thunb.
Puccinia Hydrocotyles (Link) Cooke

Hydrocotyle sp. indet.
Puccinia Hydrocotyles (Link) Cooke

Lichtensteinia sp. indet.
Caeoma Lichtensteiniae Doidge

Pastinaca sativa Linn.
Cercospora Pastinacae (Sacc.) Peck

Petroselinum hortense Hoffm.
Septoria Petroselini Desm.

Peucedanum capense Sond.
Uromyces Heteromorphae Thuem.

Peucedanum galbanum (Linn.) Benth. & Hook.
Uromyces Heteromorphae Thuem.

Peucedanum Zeyheri Sond.
Uromyces Heteromorphae Thuem.

Peucedanum spp. indet.
Uromyces fioranus Sacc.
Aecidium sp.

Polemannia grossulariaefolia E. & Z.
Uromyces Polemanniae Kalchbr. & Cooke

Polemannia montana Schltr. & Wolff
Uromyces Polemanniae Kalchbr. & Cooke

Ruthia gummifera (Linn.) Bolle
Uredo Gliae Lindr.

Sanicula europaea Linn.
Asterina Saniculae Doidge

Trachymene coerulea R. Graham
Erysiphe umbelliferarum de Bary

Umbelliferae indet.
Septoria umbelliferarum Kalchbr.

CORNACEAE.

Curtisia faginea Ait.

Meliola ganglifera Kalchbr.
Echidnodes Curtisiae Doidge
Fomes Caryophylli (Rac.) Bres.
Fomes connatus (Fr.) Gillet
Fomes rimosus (Berk.) Cooke
Fomes yucatanensis (Murr.) Sacc.
Ganoderma applanatum (Pers.) Pat.
Ganoderma oroflavum (Lloyd) Humphrey & Leus
Polyporus arcularius (Batsch ex Fr.) Fr.
Polyporus durus Jungh.
Polyporus ochroleucus Berk.
Polyporus varius Fr.
Polystictus perennis (Linn. ex Fr.) Fr.
Trametes Proteus (Berk.) Fr.
Cercospora Curtisiae Chupp & Doidge

ERICACEAE.

Azaea indica Linn.

=Rhododendron indicum Sweet

Erica Brownleeae Bolus

Dimerosporiopsis Engleriana P. Henn.

Erica caffra Linn.

Pucciniopsis caffra Wakef.

Erica cristaeflora Salisb.

Dimerosporiopsis Engleriana P. Henn.

Erica holosericea Salisb.

Dimerosporiopsis Engleriana P. Henn.

Erica imbricata Linn.

Dimerosporiopsis Engleriana P. Henn.

Erica leucopelta Tausch.

Dimerosporiopsis Engleriana P. Henn.

Erica obliqua Thunb.

Dimerosporiopsis Engleriana P. Henn.

Erica peltata Andr.

Dimerosporiopsis Engleriana P. Henn.

Erica spp. indet.

Dimerosporiopsis Engleriana P. Henn.

Rhododendron indicum Sweet

Septoria Azaleae Vogl.

Rhododendron spp. indet.

Exobasidium Vaccinii (Fuck.) Woron.
Macrophoma Falconieri P. Henn.

Scyphogyne inconspicua Brogn.

Dimerosporiopsis Engleriana P. Henn.

MYRSINACEAE.

Maesa rufescens A. DC.

Vestergrenia chaenostoma (Sacc.) Theiss.

Myrsine africana Linn.

Meliola transvaalensis Doidge
Sphaerella Myrsinis Kalchbr. & Cooke
Scolecopeltis Morganae Doidge
Scolecopeltis Myrsinis Doidge

Myrsine melanophleos R. Br.

=Rapanea melanophleos Mez.

Rapanea melanophleos Mez.

Elmerococcum Peglerae (Pole Evans) Doidge
Coryneliospora fructicola (Pat.) Fitz.
Phyllachora myrsinicola Doidge
MacOwaniella myrsinicola Doidge
Polystictus biformis (Klotzsch) Fr.
Pestalotia Rapaneae Laughton
Cladosporium Melanophloei Thuem.
Menispora cylindrica Kalchbr. & Cooke
Trichodochium disseminatum Syd.

PRIMULACEAE.

Cyclamen indicum Linn.

Phyllosticta sp.
Botrytis cinerea Pers.

Primula malacoides Franch.

Botrytis cinerea Pers.

Primula polyantha Mill.

Ramularia Primulae Thuem.

PLUMBAGINACEAE.

Limonium latifolium Kuntze

Pythium vexans de Bary
Uromyces Limonii (DC.) Lev.

Limonium sinuatum Mill.

Cercospora insulana (Sacc.) Chipp

Limonium sp. indet.

Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Fautr. var. compactum Wollenw.

Statice latifolia Sm.

=Limonium latifolium Kuntze

SAPOTACEAE.

Chrysophyllum magalismontanum Sond.

Asterina Bosmanae Doidge
Pseudographis Chrysophylli Doidge
Septoria Evansii Syd.

Chrysophyllum natalense Sond.

Asterina opaca Syd.

Mimusops caffra E. Mey.

Phyllachora placida (Syd.) Theiss.
Uromyces Mimusops Cooke
Pestalotia caffra Syd.

Mimusops obovata Sond.

Schiffnerula sp.
Asterinella Mimusopsidis Doidge

Mimusops Zeyheri Sond.

Diatrype auristroma Doidge
Hypoxylon rubiginosum Pers. ex. Fr.
Uromyces Mimusops Cooke
Poria contigua (Pers. ex Fr.) Cooke

Sideroxylon inerme Linn.

Titanella grandis Syd.
Asterina robusta Doidge
Macrophomina limbalis Syd.

Sideroxlon sp.

Phyllachora Baumii P. Henn.

EBENACEAE.

Diospyros mespiliformis Hochst.

Aecidium Diospyri A. L. Sm.

Euclea divinorum Hiern.

Pilidium Eucleae (Kalchbr. & Cooke) Sacc.

Euclea Kellau Hochst.

Cronartium Gilgianum P. Henn.

Euclea lanceolata E. Mey.

Palawania orbiculata (Syd.) Doidge
Cronartium Gilgianum P. Henn.
Pilidium Eucleae (Kalchbr. & Cooke) Sacc.

Euclea macrophylla E. Mey.

Palawaniella orbiculata (Syd.) Doidge
Cronartium Gilgianum P. Henn.

Euclea natalensis A. DC.

Ispinga areolata Doidge
Palwania orbiculata (Syd.) Doidge
Cronartium Gilgianum P. Henn.
Pilidium Eucleae (Kalchbr. & Cooke) Sacc.

Euclea racemosa Murr.

Palawania orbiculata (Syd.) Doidge
Pilidium Eucleae (Kalchbr. & Cooke) Sacc.

Euclea undulata Thunb.

Pilidiun Eucleae (Kalchbr. & Cooke) Sacc.

Euclea spp. indet.

Palawania orbiculata (Syd.) Doidge
Pilidium Eucleae (Kalchbr. & Cooke) Sacc.

Maba natalensis Harv.

Aecidium bicolor Sacc.

Royena lucida Linn.

Daldinia concentrica (Bolt. ex Fr.) Ces. & de Not.
Stigmatopeltis Royenae Doidge
Fomes Caryophylli (Rac.) Bres.

Royena pallens Thunb.

Aecidium Royenae Cooke & Mass.

Royena villosa Linn.

Dimerium myriadeum (Cooke) Theiss.
Aecidium Royenae Cooke & Mass.

Ebenaceae indet.

Aecidium sp.

OLEACEAE.

Fraxinus angustifolia Vahl

Phomopsis samarorum (Desm.) v. Höhn.

Jasminum angulare Vahl

Meliola gemellipoda Doidge
Asterina erysiphoides Kalchbr. & Cooke emend. Doidge
Ferrarisia Jasmini Doidge

Jasminum microphyllum Bkr.

Aecidium longaense P. Henn.

Jasminum multipartitum Hochst.

Asterina erysiphoides Kalchbr. & Cooke emend. Doidge
Uromyces Hobsoni Vize

Jasminum pubescens Willd.

Meliola gemellipoda Doidge

Jasminum streptopus E. Mey.

Meliola jasminicola P. Henn.
Meliola oleicola Doidge var. Jasmini Doidge
Meliola xumenensis Doidge
Calopeltis Jasmini Doidge

Jasminum tortuosum Willd.

Asterina erysiphoides Kalchbr. & Cooke emend. Doidge
Puccinia exhauriens Thuem.

Olea africana Mill.

Dimerina verrucicola (Wint.) Theiss.
Asterodothis solaris (Kalchbr. & Cooke) Theiss.
Hysterostoma orbiculata Syd.
Hysterographium Fraxini Pers. & de Not. var. Oleastri Desm.
Fomes glaucoporus Lloyd
Fomes rimosus (Berk.) Cooke
Fomes yucatanensis (Murr.) Sacc.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Pleurotus olearius (DC. ex Fr.) Gill.
Coleophoma Oleae (DC.) Petr. & Syd.

Olea capensis Linn.

Perischizon oleifolium (Kalchbr. & Cooke) Theiss.
Rosenscheldia horridula Doidge
Meliola oleicola Doidge
Meliola petiolaris Doidge
Balladynella confusa (Doidge)Hansf.
Microcallis Oleae Hansf.
Mycosphaerella Byliana Syd.
Sphaerulina oleifolia v. d. Byl

Asterodothis solaris (Kalchbr. & Cooke) Theiss.
Hysterostoma orbiculata Syd.
Cocconia porrigo (Cooke) Sacc.
Ceuthospora Oleae Kalchbr. & Cooke

Olea europaea Linn.

Macrophoma Oleae Berl. & Vogl.
Gloeosporium olivarum Alm.
Scolecosporium pedicellatum Dearn. & Overh.
Macrosporium Oleae Berl. & Vogl.
Cycloconium oleaginum Cast.

Olea exasperata Jacq.

Balladynella confusa (Doidge) Hansf.
Asterodothis solaris (Kalchbr. & Cooke) Theiss.
Hysterostoma capense Syd.

Olea foveolata E. Mey.

Meliola oleicola Doidge
Daldinia concentrica (Bolt. ex Fr.) Ces. & de Not.
Asterodothis solaris (Kalchbr. & Cooke) Theiss.
Hysterostomella opaca (Syd.) Doidge
Ganoderma applanatum (Pers.) Pat.
Phyllosticta sp.

Olea laurifolia Lam.

Perischizon oleifolium (Kalchbr. & Cooke) Syd.
Meliola oleicola Doidge
Meliola petiolaris Doidge
Balladynella confusa (Doidge) Hansf.
Sphaerulina oleifolia v. d. Byl
Daldinia concentrica (Bolt. ex Fr.) Ces. & de Not.
Asterodothis solaris (Kalchbr. & Cooke) Theiss.
Cocconia porrigo (Cooke) Sacc.
Eupelte amicta Syd.
Auricularia auricula-judae (Fr.) Secretan
Stereum hirsutum (Willd. ex Fr.) Fr.
Stereum lobatum (Kunze) Fr.
Irpex vellereus Berk. & Br.
Ptychogaster sp.
Daedalea stereoides Fr.
Fomes McGregori Bres.
Fomes minutulus P. Henn.
Fomes rimosus (Berk.) Cooke
Fomes robustus Karst.
Ganoderma applanatum (Pers.) Pat.
Ganoderma Emini P. Henn.
Ganoderma fulvellum Bres.
Ganoderma lucidum (Leyss. ex Fr.) Karst.
Hexagona Friesiana Speg.
Lenzites aspera Klotzsch
Lenzites betulina (Linn. ex Fr.) Fr.

Lenzites Palisoti Fr.
Polyporus cuticularis (Bull. ex Fr.) Fr.
Polyporus sulphureus (Bull. ex Fr.) Fr.
Polyporus virgatus Berk. & Curt.
Polystictus ochraceus (Pers.) Lloyd
Polystictus sanguineus (Linn. ex Fr.) Fr.
Polystictus zonatus Fr.
Trametes albotexta Lloyd.
Trametes glabrescens (Berk.) Fr.
Lentinus dactyliophorus Lev.
Lentinus Sajor-caju Fr.

Olea macrocarpa C. H. Wright

Perischizon oleifolium (Kalchbr. & Cooke) Syd.

Olea Peglerae C. H. Wright

Meliola oleicola Doidge
Balladynella confusa (Doidge) Hansf.

Olea verrucosa Link

=Olea africana Mill.

Olea Woodiana Knobl.

Perischizon oleifolium (Kalchbr. & Cooke) Syd.
Rosenscheldia horridula Doidge
Asterodothis solaris (Kalchbr. & Cooke) Theiss.

Olea spp. indet.

Meliola oleicola Doidge
Hypoxylon hypomiltum Mont.
Xylaria tabacina (Kickx) Berk.
Cocconia porrigo (Cooke) Sacc.
Patella scutellata (L.) Morgan
Ptychogaster sp.
Stereum Kalchbrenneri Sacc.
Fomes rimosus (Berk.) Cooke
Fomes Robinsoniae (Murr.) Sacc. & Trott.
Fomes yucatanensis (Cooke) Sacc.
Polystictus cinnabarinus (Jacq. ex Fr.) Fr.
Polystictus sanguineus (Linn. ex Fr.) Fr.
Schizophyllum commune Fr.
Rhizoctonia sp.

SALVADORACEAE.

Azima tetracantha Lam.

Meliola Azimae Doidge

LOGANIACEAE.

Buddleia auriculata Benth.

Irene inermis (Kalchbr. & Cooke) Theiss. & Syd.
Phyllosticta auriculata Kalchbr. & Cooke
Septoria Thuemenii Sacc.

Buddleia pulchella N. E. Br.

Irene inermis (Kalchbr. & Cooke) Theiss. & Syd.

Buddleia salvifolia Lam.

Irene inermis (Kalchbr. & Cooke) Theiss. & Syd.
Septoria Buddleiae Kalchbr. & Cooke
Oidium sp.

Buddleia sp. indet.

Sclerotium Rolfsii Sacc.

Chilianthus arboreus A. DC.

Irene implicata Doidge
Asterinella inconspicua (Doidge) Hansf.

Chilianthus dysophyllus A. DC.

Irene inermis (Kalchbr. & Cooke) Theiss. & Syd.

Gomphostigma scoparioides Turcz

=Gomphostigma virgata (Linn. f.) O. Ktze

Gomphostigma virgata (Linn. f.) O. Ktze.

Aecidium Gomphostigmae Doidge

Lachnopylis floribunda (Benth.) C. A. Sm.

Irene Nuxiae Syd.
Stereum Kalchbrenneri Sacc.
Polyporus grammocephalus Berk.

Lachnopylis tomentosa (Sond.) C. A. Sm.

Irene Nuxiae Syd.
Microcallis Nuxiae (Doidge) Hansf.

Lachnopylis spp. indet.

Schiffnerula sp.
Armillaria mellea (Vahl ex Fr.) Quél.

Nuxia floribundia Benth.

=Lachnopylis floribunda (Benth.) C. A. Sm.

Nuxia tomentosa Sond.

=Lachnopylis tomentosa (Sond.) C. A. Sm.

Strychnos Gerrardi N. E. Br.

Xylaria ianthino-velutina Mont.

Strychnos Henningsii Gilg.

Puccinia lindaviana P. Henn.
Polyporus gilvus (Schw.) Fr.

Strychnos spp. indet.

Xylaria carpophila Pers. ex Fr.
Xylaria heloidea Penz. & Sacc.

GENTIANACEAE.

Limnanthemum Thunbergianum Griseb.

Phaeosphaerella congregata (Syd.) Doidge

APOCYNACEAE.

Acokanthera spectabilis H. k f.

Echidnodes Acokantherae Doidge

Acokanthera venenata G. Don.

Echidnodes Acokantherae Doidge

Acokanthera sp. indet.

Hysterostoma Acocantherae (P. Henn.) Theiss. & Syd.

Allamanda cathartica Linn.

Cercospora Byliana Syd.

Carissa arduina Lam.

=Carissa bispinosa (Linn.) Desf.

Carissa bispinosa (Linn.) Desf.

Leveillina Arduinae Kalchbr. & Cooke
Meliola Carissae Doidge
Erikssonia Carissae Doidge
MacOwaniella congesta (Wint.) Doidge
Echidnodes Acokantherae Doidge
Trichopeltula Carissae Doidge
Phyllosticta Carissae Kalchbr. & Cooke

Carissa grandiflora A. DC.

MacOwaniella congesta (Wint.) Doidge

Carissa haematocarpa (E. & Z.) DC.

MacOwaniella congesta (Wint.) Doidge

Carpodinus leucantha K. Schum.

Uredo Carpodini P. Henn.

Conopharyngia elegans Stapf

Puccinia callistea Syd.

Conopharyngia ventricosa Stapf
Micropeltis stigma Cooke
Puccinia Tabernaemontanae Berk. & Br.

Funtumia elastica Stapf
Colletotrichum Kickxiae Verw. & du Pless.

Gonioma Camassi (E. & Z.) E. Mey.
Meliola Goniomae Doidge
Nummularia Kalchbrenneri (Sacc.) Miller
Fomes Robinsoniae (Murr.) Sacc. & Trott.

Kickxia elastica Preuss
=Funtumia elastica Stapf

Oncinotis inandensis Wood & Evans
Meliola Oncinotidis Doidge
Asterina aulica Syd.

Rauwolfia caffra Sond.
Cercospora Liebenbergii Syd.

Strophanthus speciosus Reber
Irene Strophanthi Doidge

Voacanga Thouarsii Roem. & Schult.
Puccinia callistea Syd.

ASCLEPIADACEAE.

Asclepias albens Schltr.
Puccinia Pachycarpi Kalchbr. & Cooke

Asclepias fruticosa Linn.
Uredo Asclepiadis-fruticosa Doidge
Septoria Schlechteriana P. Henn.
Sacidium Gomphocarpi Kalchbr. & Cooke

Asclepias sp. indet.
Oidium sp.

Caralluma sp. indet.
Triposporium Stapeliae du Pless.

Cryptolepis capensis Schltr.
Uredo Cryptolepidis Cooke

Cryptolepis oblongifolia Schltr.
Uredo Ectadiopsis Cooke

Cryptolepis obtusa N. E. Br.
Uredo Cryptolepidis Cooke

Cynanchum ellipticum (Harv.) R. A. Dyer
Schiffnerula Doidgeae Hansf.
Asteroma pallidum Kalchbr.

Cynanchum natalitium Schlecht.
Cercospora puncti formis Sacc. & Roum.

Cynoctonium capense E. Mey. (*Cynanchum capense* Thunb. non Linn. f.)
=Cynanchum ellipticum (Harv.) R. A. Dyer

Duvalia corderoyi N. E. Br.
Triposporium Stapeliae du Pless.

Duvalia parviflora N. E. Br.
Pythium ultimum Trow
Triposporium Stapeliae du Pless.

Duvalia sp. indet.
Triposporium Stapeliae du Pless.

Ectadiopsis oblongifolia Benth.
=Cryptolepis oblongifolia Schltr.

Gomphocarpus fruticosus Sims
=Asclepias fruticosa Linn.

Gomphocarpus sp. indet.
Septoria Gomphocarpi P. Henn.

Hoodia Bainii Dyer
Triposporium Stapeliae du Pless.

Hoodia Gordoni Sweet
Triposporium Stapeliae du Pless.

Huernia longituba N. E. Br.
Triposporium Stapeliae du Pless.

Huernia oculata Hook, f.
Triposporium Stapeliae du Pless.

Pachycarpus grandiflorus E. Mey.
Puccinia Pachycarpi Kalchbr. & Cooke

Pachycarpus Schinzianus N. E. Br.
Puccinia Schlechteri P. Henn.
Cercospora Pachycarpi Chupp & Doidge

Pachycarpus sp. indet.
Phyllosticta degenerans Syd.

Sarcophagophilus Winklerianus de Pless.
Triposporium Stapeliae du Pless.

Secamone alpini Schultes
Asterina secamonicola Doidge

Secamone frutescens Decne.
Meliola perpusilla Syd. var. congoensis Beeli
Schiffnerula Doidgeae Hansf.

Stapelia desmetiana N. E. Br.
Triposporium Stapeliae du Pless.

Stapelia gemmiflora Mass. var. **hircosa** N. E. Br.
Phoma Stapeliae Kalchbr. & Cooke

Stapelia Leendertziae N. E. Br.
Triposporium Stapeliae du Pless.

Stapelia Schinzii Berg. & Schlecht.
Triposporium Stapeliae du Pless.

Stapelia spp. indet.
Pythium de Baryanum Hesse
Pythium ultimum Trow
Triposporium Stapeliae du Pless.

Tavaresia grandiflora Berger
Triposporium Stapeliae du Pless.

Tavaresia sp. indet.
Pythium ultimum Trow.

Trichocaulon annulatum N. E. E. Br.
Triposporium Stapeliae du Pless.

Trichocaulon cactiforme N. E. Br.
Triposporium Stapeliae du Pless.

Trichocaulon sinus-Luderotzii Dinter
Triposporium Stapeliae du Pless.

Trichocaulon spp. indet.
Phytophthora parasitica Dast.
Triposporium Stapeliae du Pless.

Tylophora Flanagani Schlecht.
Schiffnerula Doidgeae Hansf.
Asterina peraffinis Speg.

Asclepiadaceae indet.
Schiffnerula Doidgeae Hansf.

CONVOLVULACEAE.

Batatas paniculata Choisy
=Ipomoea paniculata (Linn.) R. Br.

Convolvulus ulosepalus Hall f.
Cystopus Ipomoeae-panduranae (Schw.) Stev. & Swing.

Cuscuta cassytoides Nees
Dendryphium MacOwanianum Thuem.

Dichondra repens Forsk.
Puccinia Dichondrae Mont.

Evolvulus alsinoides Linn.
Puccinia desertorum Syd.

Hewittea bicolor Wight
Coleosporium Ipomoeae Burr.

Ipomoea albivenia Sweet
Puccinia Ipomoeae-panduratae (Schw.) Syd.

Ipomoea argyreoides Choisy
=Ipomoea oenotheroides (Linn. f.) Rafin.

Ipomoea batatas Poir.
Rhizopus nigricans Ehrenb.
Pythium ultimum Trow
Macrophomina Phaseoli (Maubl.) Ashby
Diplodia tubericola (Ell. & Everh.) Taubenh.
Fusarium oxysporum Schlecht.

Ipomoea cardiosepala Hochst.
Cystopus Ipomoeae-panduranae (Schw.) Stev. & Swing.

Ipomoea convolvuloides Hall
Uromyces Ipomoeae (Thuem.) Berk.

Ipomoea digitata Linn.
=Ipomoea paniculata (Linn.) R. Br.

Ipomoea ficifolia Lindl.
Cystopus Ipomoeae-panduranae (Schw.) Stev. & Swing.
Puccinia holosericea Cooke

Ipomoea Greenstockii Rendl.
Uromyces Greenstockii Doidge

Ipomoea holosericea E. Mey.
=Ipomoea ficifolia Lindl.

Ipomoea obscura Ker.
Cystopus Ipomoeae-panduranae (Schw.) Stev. & Swing.

Ipomoea oenotheroides (Linn. f.) Rafin.
Uromyces Ipomoeae (Thuem.) Berk.

Ipomoea Ommanei Rendl.
Uromyces Ipomoeae (Thuem.) Berk.

Ipomoea paniculata (Linn.) R. Br.
Puccinia Batatae Syd.

Ipomoea Wightii Choisy
Puccinia holosericea Cooke

Ipomoea spp. indet.
Cystopus Ipomoeae-panduranae (Schw.) Stev. & Swing.
Puccinia holosericea Cooke

Merremia bipinnatipartita Hallier f.
Uromyces comptus Syd.

POLEMONIACEAE.

Gilia rubra Heller
Pythium ultimum Trow
Fusarium Solani (Mart.) Appel & Wollenw.
Fusarium sp. (Elegans section)
Sclerotium Rolfsii Sacc.

Phlox Drummondii Hook.
Septoria Drummondii Ell. & Everh.
Ovulariopsis sp.
Cercospora omphacodes Ell. & Holw.
Fusarium moniliforme Sheld.
Fusarium Scirpi Lamb. & Fautr.
Sclerotium Rolfsii Sacc.

HYDROPHYLLACEAE.

Nemophila insignis Benth.
Phyllosticta Nemophilae Dipp.

Nemophila sp. indet.
Phyllosticta Nemophilae Dipp.

BORRAGINACEAE.

Cordia caffra Sond.
Phyllachora caffra Syd.

Cynoglossum grande Dougl.
Aecidium Davyi Syd.

Cynoglossum micranthum Desf.
Aecidium Davyi Syd.

Heliotropium Nelsoni Wright
Aecidium heliotropicolum Talbot

Trichodesma africanum R. Br.
Oidium sp.

VERBENACEAE.

Clerodendron Buchneri Gürke
Aecidium clerodendricolum P. Henn.

Clerodendron glabrum E. Mey.
Hemileia Scholzii Syd.

Clerodendron myricoides R. Br. var. **cuneatum** Pears.
Cersospora Clerodendri Miyake

Clerodendron sp.
Hemileia Scholzii Syd.

Lantana Camara Linn.
Phoma Lantanae Verw. & du Pless.

Lantana salvifolia Jacq.
Puccinia natalensis Diet. & Syd.

Lippia asperifolia Rich.
Puccinia lippiivora Syd.
Aecidium Evansii P. Henn.

Lippia scaberrima Sond.

Aecidium Evansii P. Henn.

Lippia sp. indet.

Puccinia lippiivora Syd.

Priva dentata Juss.

=Priva Meyeri Jaub. & Spach.

Priva Meyeri Jaub. & Spach.

Cercosporella delicatissima (Kalchbr. & Cooke) Chupp

Verbena hybrida Voss

Phytophthora cactorum (Leb. & Cohn) Schroet.
Oidium Verbenae Thuem. & Bolle

Vitex mooiensis Pearson

Auricularia Emini P. Henn.

LABIATAE.

Becium obovatum N. E. Br.

Puccinia Becii Doidge

Coleus spp. indet.

Pythium de Baryanum Hesse
Pythium ultimum Trow

Hemizygia Pretoriae (Gurke) Ashby

Puccinia galerita Doidge

Leonotis dysophila Benth.

Puccinia leonotidicola P. Henn.

Leonotis leonitis R. Br.

Diatrype Leonotidis Doidge
Puccinia leonotidicola P. Henn.
Cercospora Leonitidis Cooke

Leonotis leonurus R. Br.

Puccinia leonotidicola P. Henn.

Leonotis nepetifolia (Linn.) R. Br.

Puccinia leonotidicola P. Henn.

Leonotis ovata Spreng.

=Leonotis leonitis R. Br.

Leonotis sp. indet.
Puccinia leonotidicola P. Henn.

Leucas glabrata R. Br.
Puccinia Leucadis Syd.

Leucas martinicensis R. Br.
Puccinia Leucadis Syd.
Oidium sp.

Mentha aquatica Linn.
Puccinia Menthae Pers.

Mentha longifolia Huds. subsp. **capensis** Briq.
Puccinia Menthae Pers.

Mentha sylvestris Linn. var. *capensis*
=Mentha longifolia Huds. subsp. capensis Briq.

Mentha viridis Linn.
Puccinia Menthae Pers.

Ocimum americanum Linn.
Puccinia Ocimi Doidge

Ocimum obovatum E. Mey.
=Becium obovatum N. E. Br.

Ocimum suave Willd.
Puccinia Ocimi Doidge

Orthosiphon Pretoriae Gürke
=Hemizygia Pretoriae (Gürke) Ashby

Orthosiphon sp. indet.
Puccinia pallens Syd.

Plectranthus ciliatus E. Mey.
Meliola capnodioides Thuem.

Plectranthus fruticosus L'Herit.
Mycosphaerella Plectranthi Doidge

Plectranthus floribundus N. E. Br.
Aecidium Plectranthi Barcl.

Plectranthus laxiflorus Benth.
Puccinia Plectranthi Thuem.

Plectranthus spp. indet.
Puccinia luandensis Syd.
Puccinia Plectranthi Thuem.
Aecidium Plectranthi Thuem.

Pycnostachys purpurascens Briq.
Aecidium Pycnostachydis (Kalchbr.) Syd.

Pycnostachys reticulata Benth.
Aecidium Pycnostachydis (Kalchbr.) Syd.

Salvia runcinata Linn. f.
Puccinia Salviae-runcinatae Doidge

Salvia splendens Ker.
Sclerotinia sclerotiorum (Lib.) de Bary

Salvia sp. indet.
Puccinia Salviae Ung.

Stachys aethiopica Linn.
Meliola capnodioides Thuem.
Puccinia aethiopica Kalchbr. & Cooke

Stachys grandifolia E. Mey.
Puccinia aethiopica Kalchbr. & Cooke

Stachys hyssopoides Burch.
Puccinia aethiopica Kalchbr. & Cooke

Stachys spathulata Burch.
Puccinia aethiopica Kalchbr. & Cooke

Stachys spp. indet.
Meliola capnodioides Thuem.
Puccinia aethiopica Kalchbr. & Cooke

Teucrium riparium Hochst.
Oidium sp.

Tinnea eriocalyx Welw.
Aecidium Tinneae P. Henn.

Labiatae indet.
Meliola capnodioides Thuem.

Capsicum frutescens Linn.

Leveillula taurica (Lév.) Arn.
Colletotrichum nigrum Ell. & Halst.

Cyphomandra betacea Sendt.

Macrosporium sp.

Datura ferox Linn.

Oidium sp.

Datura Metel Linn.

Alternaria crassa Rands

Datura Stramonium Linn.

Phomopsis Daturae (Roll. & Fautr.) Sacc.
Oidium sp.
Alternaria crassa Rands
Alternaria tenuis Nees
Fusarium sambucinum Fuck.
Fusarium sp. (Elegans section)
Rhizoctonia sp.
Sclerotium Rolfsii Sacc.

Datura Tatula Linn.

Phoma Tatulae Kalchbr. & Cooke
Alternaria crassa Rands.

Lycium afrum Linn.

Puccinia afra Wint.

Lycium austrinum Miers.

Puccina Lycii Kalchbr.

Lycium campanulatum E. Mey.

Puccinia afra Wint.

Lycium echinatum Dun.

Eutypella Lycii Doidge

Lycium hirsutum Dun.

Puccinia Lycii Kalchbr.

Lycium oxycladum Miers.

Puccinia Lycii Kalchbr.

Lycium tubulosum Nees

Puccinia Lycii Kalchbr.
(This species of Lycium not traced ; not in Index Kewensis, apparently a Ms. name).

Lycium spp. indet.

Puccinia Lycii Kalchbr.
Puccinia Verwoerdiana v. d. Byl
Uredo sp.

Lycopersicum esculentum Mill.

Rhizopus nigricans Ehrenb.
Phytophthora infestans (Mont.) de Bary
Phytophthora parasitica Dast.
Pythium aphanidermatum (Eds.) Fitz.
Pythium splendens Braun
Pythium ultimum Trow
Phoma destructiva (Plowr.) Jamieson
Phomopsis Phaseoli Grove
Septoria Lycopersici Speg.
Colletotrichum phomoides (Sacc.) Chester
Vermicularia Dematium Fr.
Oidium Lycopersici Cooke & Mass.
Cladosporium fulvum Cooke
Alternaria Solani (Ell. & Mart.) Jones & Grout
Macrosporium Tomato Cooke
Fusarium angustum Sherb.
Fusarium bulbigenum Cooke & Mass.

var. Lycopersici (Brushi) Wollenw. & Reinking.

Fusarium coeruleum (Lib.) Sacc.
Fusarium Equiseti (Corda) Sacc.
Fusarium moniliforme Sheld.
Fusarium redolens Wollenw. f. 1. Wollenwr.
Fusarium sambucinum Fuck.
Fusarium Scirpi Lamb. & Fautr.
Fusarium vasinfectum Atk. var. zonatum (Sherb.) f. 1. (Link & Bailey) Wollenw.
Rhizoctonia Solani Kuhn.

Lycopersicum pimpinlelifolium Mill.

Septoria Lycopersici Speg.

Nicandra physaloides Gaertn.

Alternaria Solani (group).
Rhizoctonia sp.

Nicotiana rustica Linn.

Oidium Tabaci Thuem.
Alternaria tabacina (Ell. & Everh.) Hori
Sclerotium Rolfsii Sacc.

Nicotiana Tabacum Linn.

Rhizopus arhizus Fischer
Rhizopus nigricans Ehrenb.
Phytophthora parasitica Dast.
Pythium aphanidermatum (Eds.) Fitz.
Pythium de Baryanum Hesse
Pythium ultimum Trow
Pythium sp.
Thielavia basicola Zopf
Phoma sp.
Phyllosticta Nicotianae Ell. & Everh.
Phyllosticta Tabaci Pass.
Ascochyta Nicotianae Pass.
Aspergillus flavus Link.
Aspergillus glaucus Link
Aspergillus sulphureus (Fres.) Thom & Chureh
Oidium Tabaci Thuem.
Verticillium sp.
Alternaria longpipes (Ell. & Everh.) Tisd. & Wadk.
Alternaria tabacina (Ell. & Everh.) Hori
Alternaria tenuis Nees
Alternaria Solani (group)
Cercospora Nicotiannae Ell. & Everh.
Fusarium bulbigenum Cooke & Mass.
Fusarium moniliforme Sheld.
Fusarium oxysporum Schlecht. var. Nicotianae Johns.
Fusarium Scirpi Lamb. & Fautr. var. acuminatum (Ell. & Everh.) Wollenw.
Rhizoctonia Solani Kuhn
Sclerotium Rolfsii Sacc.

Petunia hybrida Vilm.

Oidium sp.

Physalis angulata Linn.

Entyloma australe Speg.
Oidium sp.

Physalis 'Hornemannii'

(Kalchbr. & Cooke 1880 : 22) possibly a mis-spelling of *Physalis Hermannii* =Physalis angulata.

Physalis minima Linn.

The South African plants previously named *Physalis minima* Linn. are not this species but Physalis angulata Linn.

Physalis peruviana Linn.

Entyloma australe Speg.
Phyllosticta sp.
Ascochyta Alkekengi Massal.
Penicillium digitatum Sacc.
Alternaria Solani (group).

Solanum auriculatum Ait.

Gibberella pulicaris (Fr.) Sacc.
Hypocrea trachycarpa Syd.
Peroneutypella cylindrica (Kalchbr. & Cooke) Berl.
Valsaria natalensis Doidge
Hymenochaete tristicula (Berk. & Br.) Mass.
Cladosporium fulyum Cooke

Solanum Baumii Dammer

=Solanum panduraeforme E. Mey.

Solanum giganteum Jacq.

Aecidium habunguense P. Henn.

Solanum incanum Linn.

Leveillula taurica (Lév.) Arn.
Aecidium habunguense P. Henn.
Gloeosporium fructigenum Berk.

Solanum indicum Linn.

Aecidium habunguense P. Henn.
Oidium sp.

Solanum Melongena Linn.

Aecidium tubulosum Pat. & Gaill.

Solanum Melongena Linn. var. **esculentum** Nees

Pythium aphanidermatum (Eds.) Fitz.
Pythium ultimum Trow
Aecidium habunguense P. Henn.
Colletotrichum atramentarium (Berk. & Br.) Taubenh.
Gloeosporium fructigenum Berk.
Oidium sp.
Verticillium ? alboatrum Reinke & Berth.
Alternaria Solani (Ell. & Mart.) Jones & Grout
Cercospora solanimelongenae Hori
Sclerotium Rolfsii Sacc.

Solanum panduraeforme E. Mey.

Aecidium habunguense P. Henn.
Cercospora egenula (Syd.) Chupp & Doidge

Solanum sup num Dun.

Aecidium habunguense P. Henn.

Solanum tuberosum Linn.

Spongospora subterranea (Wallr.) Lagerh.
Synchytrium endobioticum (Schilb.) Perc.
Phytophthora infestans (Mont.) de Bary

Pythium aphanidermatum (Eds.) Fitz.
Corticium vagum Berk. & Curt.
Colletotrichum atramentarium (Berk. & Br.) Taubenh.
Actinomyces scabies (Thaxt.) Gussow
Oidium Solani auct.
Oospora pustulans Owen & Wakef.
Trichoderma lignorum (Tode) Harz
Verticillium alboatrum Reinke & Berth.
Alternaria Solani (Ell. & Mart.) Jones & Grout
Spondylocladium atrovirens Harz
Fusarium argillaceum (Fr.) Sacc.
Fusarium bulbigenum Cooke & Mass. var. blasticola (Rostr.) Wollenw.
Fusarium coeruleum (Lib.) Sacc.
Fusarium culmorum (W. G. Sm.) Sacc.
Fusarium javanicum Koord. var. radicicola Wollenw.
Fusarium moniliforme Sheld.
Fusarium orthoceras Appel & Wollenw.
Fusarium oxysporum Schlecht.
Fusarium oxysporum Schlecht. f. 1. Wollenw.
Fusarium sambucinum Fuck.
Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Fautr. var acuminatum (Ell. & Everh.) Wollenw.
Fusarium Solani (Mart.) Appel & Wollenw.
Fusarium Solani (Mart.) var. Martii (Appel & Wollenw.) f. 1. Wollenw.
Rhizoctonia Solani Kuhn
Sclerotium Rolfsii Sacc.

Solanum sp. indet.

Aecidium habunguense P. Henn.

Withania somnifera Dun.

Puccinia Atropae Mont.
Cercospora Withaniae Syd.

SCROPHULARIACEAE.

Anastrabe integerrima E. Mey.

Irene Peglerae Doidge

Antirrhinum majus Linn.

Phytophthora cactorum (Leb. & Cohn) Schroet.
Phytophthora parasitica Dast.
Pythium de Baryanum Hesse
Pythium irregulare Buisman
Pythium oligandrum Drechsl.
Pythium spinosum Sawada
Puccinia Antirrhini Diet. & Holw.
Phyllosticta Antirrhini Syd.
Septoria Antirrhini Desm.
Colletotrichum Antirrhini Stev.
Fusarium oxysporum Schlecht. var. aurantiacum (Link) Wollenw.
Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Fautr. var. compactum Wollenw.

Fusarium vasinfectum Atk. f. 2. Wollenw. & Reinking
Rhizoctonia Solani Kuhn

Bowkeria cymosa MacOwan

Irene Peglerae Doidge

Bowkeria triphylla Harv.

Irene Peglerae Doidge

Chaenostoma floribundum Benth.

=Sutera floribunda O. Ktze.

Halleria elliptica Linn.

Irene Peglerae Doidge
Pleostomella Halleriae Doidge

Halleria lucida Linn.

Irene Peglerae Doidge
Diatrype caminata Kalchbr. & Cooke
Diatrypella oligostroma Syd.
Eutypella Doidgeae Syd.
Daldinia concentrica (Bolt. ex Fr.) Ces. & de Not.
Palawania Halleriae (Dipp.) Doidge
Pleostomella Halleriae Doidge
Cercospora Halleriae Chupp & Doidge

Linaria sp. indet.

Puccinia Antirrhini Diet. & Holw.
Oidium sp.

Nemesia strumosa Benth. var. **Suttoni** Hort.

Cystopus Evansii (Syd.) Sacc. & Trott.

Nemesia spp. indet.

Cystopus Evansii (Syd.) Sacc. & Trott.
Mycosphaerella Nemesiae Dipp.

Penstemon gloxinoides Hort.

Fusarium Solani (Mart.) var. Martii (Appel & Wollenw.) f. 1. Wollenw.
Fusarium vasinfectum Atk. f. 2. Wollenw. & Reinking
Sclerotium Rolfsii Sacc.

Striga lutea Lour.

Pythium ultimum Trow
Fusarium Equiseti (Corda) Sacc.
Fusarium moniliforme Sheld.
Fusarium Scirpi Lamb. & Fautr. var. compactum Wollenw.
Fusarium semitectum Berk. & Rav. var. majus Wollenw.

Sutera floribunda O. Ktze.
Aecidium sp.

BIGNONIACEAE.

Bignonia capreolata Linn.
Phyllosticta Doxanthae Verw. & du Pless.
Oidium sp.

Bignonia sp. indet.
Sclerotium Rolfsii Sacc.

Doxantha capreolata Miers
=Bignonia capreolata Linn.

Jacaranda ovalifolia R. Br.
Fumago vagans Pers.

PEDALIACEAE.

Ceratotheca triloba E. Mey.
Cercospora Sesami Zimm.

Pretrea zanguebarica J. Gay
Cercospora Sesami Zimm.

Sesamum orientale Linn.
Fusarium vasinfectum Atk. f. 2. Wollenw. & Reinking

GESNERIACEAE.

Streptocarpus Rexii Lindl.
Asterina Streptocarpi Doidge

Streptocarpus sp. indet.
Asterina Streptocarpi Doidge

ACANTHACEAE.

Acanthopsis sp. indet.
Aecidium Acanthopsidis Syd.

Barleria crassa C. B. Cl.
Aecidium Barleriae Doidge

Barleria obtusa Nees
Meliola sp. near M. capnodioides Thuem.
Asterina tertia Rac. var. africana Doidge

Blepharis Buchneri Lindau
Puccinia Blepharidis P. Henn.

Blepharis sp. indet.
? Puccinia Blepharidis P. Henn.

Calophanes Burkei T. Anders.
=Chaetacanthus Burchellii Nees

Chaetacanthus Burchellii Nees
Aecidium Acanthacearum Cooke

Chaetacanthus glandulosus Nees
=Chaetacanthus setiger (Pers.) Lindl.

Chaetacanthus setiger (Pers.) Lindl.
Puccinia Chaetacanthi Doidge

Dicliptera clinopoda Nees
Meliola sp. nr. M. capnodioides Thuem.
Asterina tertia Rac. var. africana Doidge

Dicliptera heterostegia Presl.
Asterina tertia Rac. var. africana Doidge

Ecteinanthus prolixus T. Anders.
=Isoglossa prolixa Lind.

Hypoestes antennifera S. Moore
Uredo Hypoestis (Cooke) de Toni

Hypoestes aristata R. Br.
Asterina fimbriata Kalchbr. & Cooke
Asterina tertia Rac. var. africana Doidge
Uredo Hypoestis (Cooke) de Toni

Hypoestes triflora R. & S.
Aecidium Acanthacearum Cooke

Hypoestes verticillaris R. Br.
Cystopus quadratus Kalchbr. & Cooke
Meliola sp. nr. M. capnodioides Thuem.
Asterina tertia Rac. var. africana Doidge
Puccinia Isoglossae Doidge
Uredo Hypoestis (Cooke) de Toni

Hypoestes sp . indet.
Puccinia Isoglossae Doidge

Isoglossa densa N. E. Br.
Aecidium Acanthacearum Cooke

Isoglossa Eckloniana Lind.
Aecidium Acanthacearum Cooke

Isoglossa prolixa Lind.
Uredo Ecteinanthi Kalchbr.

Isoglossa Woodii C. B. Cl.
Meliola sp. nr. M. capnodioides Thuem.
Aecidium Acanthacearum Cooke

Isoglossa spp. Indet.
Meliola sp. nr. M. capnodioides Thuem.
Aecidium Acanthacearum Cooke

Justicia anagalloides T. Anders.
Meliola sp. nr. M. capnodioides Thuem.

Justicia Bowiei C. B. Cl.
Meliola sp. nr. M. capnodioides Thuem.

Justicia sp. indet.
Aecidium Acanthacearum Cooke

Lepidagathis microchila Lind.
Dimerium Lepidagathis (P. Henn.) Sacc.

Rhinacanthus communis Nees
Meliola acanthacearum Hansf.

Sclerochiton Harveyanus Nees
Schiffnerula Whitfieldiae Hansf.
Asterina fimbriata Kalchbr. & Cooke

Thunbergia atriplicifolia E. Mey.
Puccinia Thunbergiae Cooke

Thunbergia lancifolia T. Anders
Puccinia tandaaiënsis Hopkins

Thunbergia natalensis Hk.
Puccinia Thunbergiae Cooke

Thunbergia sp. indet.
Asterina fimbriata Kalchbr. & Cooke

RUBIACEAE.

Ancylanthus fulgidus Welw.

Hemileia Ancylanthi Syd.
Aecidium Ancylanthi P. Henn.

Anthospermum hirtum Cruse

Puccinia Anthospermi Syd.

Borreria angustifolia K. Schum.

Puccinia Borreriae Syd.

Borreria dibrachiata K. Schum.

Puccinia bakoyana Pat. & Har.

Borreria sp. indet.

Puccinia Borreriae Syd.

Burchellia bubalina (Linn. f.) Sims

Diplochorella Burchelliae Syd.
Phragmodothella nervisequens Doidge
Meliola littoralis Syd.
Asterolibertia Burchelliae Doidge
Pestalotia Burchelliae Laughton

Burchellia capensis R. Br.

=Burchellia bubalina (Linn. f.) Sims

Canthium abbreviatum S. Moore

Aecidium Baumianum P. Henn.

Canthium capensis Sond.

Asterolibertia megathyria Doidge var. Randiae Doidge

Canthium ciliatum O. Ktze.

Balladyna ugandensis Syd.
Balladyna velutina (Berk. & Curt.) v. Höhn.
Balladynastrum glabrum Hansf.
Meliola littoralis Syd.
Meliola Woodiana Sacc.
Asterina confluens Kalchbr. & Cooke
Asterina Knysnae Doidge
Hemileia Canthii Berk. & Br.
Melasmia confluens (Kalchbr, & Cooke) v. Höhn.

Canthium Gueinzii Sond.

Balladyna tenuis Hansf.
Balladyna velutina (Berk. & Curt.) v. Höhn.
Balladynastrum glabrum Hansf.
Meliola littoralis Syd.

Asterolibertia megathyria Doidge var. Randii Doidge
Aecidium Plectroniae Cooke

Canthium huillense Hiern.

Hemileia Canthii Berk. & Br.
Aecidium plectroniicola P. Henn.

Canthium Mundtianum Cham. & Schlecht.

Meliola littoralis Syd.
Meliola Woodiana Sacc.
Aecidium Baumianum P. Henn.
Aecidium Plectroniae Cooke

Canthium orbiculare Good.

Hemileia Canthii Berk. & Br.

Canthium spinosum O. Ktze.

Balladyna ugandensis Syd.
Balladyna velutina (Berk. & Curt.) v. Höhn.
Meliola littoralis Syd.
Meliola Woodiana Sacc.

Canthium ventosum O. Ktze.

Meliola Woodiana Sacc.

Canthium spp. indet.

Balladyna ugandensis Syd.
Balladyna velutina (Berk. & Curt.) v. Höhn.
Irene glabra (Berk. & Curt.) Doidge
Meliola littoralis Syd.
Henileia Canthii Berk. & Br.
Aecidium Plectroniae Cooke
Heterochaete andina Pat. & Lagerh.
Lopharia mirabilis (Berk. & Br.) Pat.

Cephalanthus natalensis Oliv.

Eurotium herbariorum (Wigg.) Link

Coffea arabica Linn.

Hemileia vastratrix Berk. & Br.
Fusarium lateritium Nees var. longum Wollenw.
Fusarium stilboides Wollenw.

Coffea robusta Hort.

Fusarium oxysporum Schlecht.

Coffea spp. indet.

Colletotrichum coffeanum Noack
Cladosporium herbarum Link

Alternaria tenuis Nees
Cercospora coffeicola Berk. & Cooke

Fadogia Cienkowskii Schw.
Hemileia Fadogiae Syd.
Uredo africana Lagerh.

Fadogia fuchsioides Welw.
=Temnocalyx fuchsioides (Welw.) Robyns

Fadogia stenophylla Welw.
Aecidium Pachystigmae Doidge

Fadogia tetraqueta K. Krause
Hemiliea Fadogiae Syd.

Fadogia sp. indet.
Hemilieia Fadogiae Syd.

Galium capense Thunb.
Puccinia punctata Link

Galopina aspera Sond.
Puccinia Galopinae Cooke

Galopina circaeoides Thunb.
Meliola Psychotriae Earle

Gardenia globosa Hochst.
Meliola littoralis Syd.

Gardenia Neuberia E. & Z.
Meliola littoralis Syd.

Gardenia Rothmannia Linn. f.
Meliola littoralis Syd.

Gardenia Thunbergiae Linn. f.
Hemileia vastatrix Berk. & Br.

Gardenia sp. indet.
Hemileia vastatrix Berk. & Br.
Aspergillus niger v. Tiegh.

Grumilea capensis Sond.
=Psychotria capensis Vatke

Grumilea cymosa E. Mey.
=Psychotria capensis Vatke

Grumilea globosa Hochst.
=Psychotria capensis Vatke

Hedyotis amatymbica Hochst.
=Oldenlandia amatymbica (Hochst.) O. Kze.

Keetia transvaalensis Phillips
=Canthium Gueinzii Sond.

Kraussia coriacea Sond.
=Tricalysia Sonderiana Hiern.

Kraussia floribunda Harv.
Balladyna velutina (Berk. & Curt.) v. Höhn.
Aecidium Kraussiae Syd.

Kraussia lanceolata Sond.
=Tricalysia lanceolata (Sond.) Burtt Davy

Kraussia Schlechteri (K. Schum.) Bull.
Aecidium Kraussiae Syd.

Lagynias discolor E. Mey.
Aecidium Vangueriae Cooke

Oldenlandia amatymbica (Hochst.) O. Kze.
Coleosporium Hedyotidis Kalchbr. & Cooke
Aecidium pretoriense Doidge

Oldenlandia natalensis (Hochst.) O. Kze.
Puccinia Woodiana Doidge

Oldenlandia sp. indet.
Coleosporium Hedyotidis Kalchbr. & Cooke

Oxyanthus Gerrardi Sond.
Balladyna leonensis Syd.
Balladyna ugandensis Syd.
Hysterostomella Oxyanthae Doidge
Asterina Oxyanthae Doidge

Pachystigma latifolium Sond.
Hemileia Woodii Kalchbr. & Cooke
Aecidium Vangueriae Cooke

Pachystigma pygmaeum (Schlecht.) Robyns

Hemileia Woodii Kalchbr. & Cooke
Puccinia Vangueriae Doidge

Pachystigma Zeyheri Sond.

=Pygmaeothamnus Zeyheri (Sond.) Robyns

Pavetta assimilis Sond.

Aecidium Pienarii Doidge
Aecidium Transvaaliae P. Henn. & Evans

Pavetta Bowkeri Harv.

Balladyna velutina (Berk. & Curt.) v. Höhn.
Meliola littoralis Syd.
Balladyna sp.

Pavetta capensis (Houtt.) Bremekamp

Balladyna velutina (Berk. & Curt.) v. Höhn.

Pavetta lanceolata Eckl.

Balladyna velutina (Berk. & Curt.) v. Höhn.
Balladynastrum glabrum Hansf.

Pavetta natalensis Sond.

Balladyna velutina (Berk. & Curt.) v. Höhn.

Pavetta obvata E. Mey.

=Pavetta revoluta Hochst.

Pavetta revoluta Hochst.

Balladyna velutina (Berk. & Curt.) v. Höhn.
Woodiella natalensis Sacc. & Syd.

Pavetta suluensis Bremekamp

Balladyna velutina (Berk. & Curt.) v. Höhn.

Pavetta spp. indet.

Balladyna velutina (Berk. & Curt.) v. Höhn.
Irene glabra (Berk. & Curt.) Doidge
Schiffnerula sp.
Aecidium transvaaliae P. Henn. & Evans
Aecidium sp.
Polyporus fruticum Berk. & Curt.
Oidium sp.

Pentanisia pentagyna K. Schum.

Puccinia Pentanisiae Cooke var. pentagynae P. Henn.

Pentanisia prunelloides (Klotzsch ex E. & Z.) O. Kze.

Puccinia Pentanisiae Cooke
Puccinia pretoriensis Doidge

Pentanisia variabilis Harv.

=Pentanisia prunelloides (Klotzsch ex E. & Z.) O. Kze.

Plectronia ciliata Sond.

=Canthium ciliatum O. Kze.

Plectronia Gueinzii Sim.

=Canthium Gueinzii Sond.

Plectronia huillensis K. Schum.

=Canthium huillense Hiern.

Plectronia Mundtiana Poppe

=Canthium Mundtianum Cham. & Schlecht.

Plectronia paucifiora Klotzsch

=Canthium ciliatum O. Kze.

Plectronia spinosa Klotzsch

=Canthium spinosum O. Kze.

Plectronia ventosa Linn.

=Canthium ventosum O. Kze.

Psilostoma ciliata Klotzsch

=Canthium ciliatum O. Kze

Psychotria capensis Vatke

Meliola littoralis Syd.
Clypeolella Psychotriae Doidge
Cercospori palicoureina Petr. & Cif.

Pygmaeothamnus Zeyheri (Sond.) Robyns

Hemileia Fadogiae Syd.
Aecidium Pachystigmae Doidge

Randia dumetorum Lam.

Asterolibertia megathyria Doidge var. Randiae Doidge

Randia rudis E. Mey.

Balladynella ugandensis Hansf.

Rubia cordifolia Linn.
Puccinia dimorpha Syd.

Rubia petiolaris DC.
Puccinia dimorpha Syd.

Rubia petiolaris DC. var. **heterophylla** Sond.
Puccinia dimorpha Syd.

Spermacoce dibrachiata Oliv.
=Borreria dibrachiata (Oliv.) K. Schum.

Tarenna pavettoides (Harv.) Sim.
Asterolibertia Burchelliae Doidge

Temnocalyx fuchsioides (Welw.) Robyns
Aecidium benguellense Lagerh.

Temnocalyx obovatus (N. E. Br.) Robyns
Aecidium benguellense Lagerh.

Tricalysia capensis (Meisn.) Sim
Meliola littoralis Syd.
Asterolibertia megathyria Doidge
Hemileia Evansii Syd.

Tricalysia lanceolata (Sond.) Burtt Davy
Balladyna velutina (Berk. & Curt.) v. Höhn.
Protothyrium Tricalysiae Doidge
Asterolibertia megathyria Doidge

Tricalysia Sonderiana Hiern
Asterolibertia megathyria Doidge
Hemileia Evansii Syd.

Vangueria infausta Burch.
Hemileia Woodii Kalchbr. & Cooke
Aecidium Vangueriae Cooke

Vangueria latifolia Sond.
=Pachystigma latifolium Sond.

Vangueria pygmaea Schlecht.
=Pachystigma pygmaea (Schlecht.) Robyns

Vangueria sp. indet.
Schizothyriella Eylesiana v. d. Byl

Vangueriopsis lanciflora (Hiern) Robyns

Hemileia Woodii Kalchbr. & Cooke

Rubiaceae indet.

Balladyna velutina (Berk. & Curt.) v. Höhn.
Irene glabra (Berk. & Curt.) Doidge
Aecidium sp.
Polyporus fruticum Berk. & Curt.

VALERIANACEAE.

Valeriana capensis Thunb.

Uromyces Valerianae (Schum.) Fuck.

CAPRIFOLIACEAE.

Diervilla florida Sieb. & Zucc.

Daedalea unicolor (Bull. ex Fr.) Fr.

DIPSACEAE.

Cephalaria attenuata (Linn. f.) R. S.

Venturia Cephalariae Kalchbr. & Cooke
Phyllosticta Cephalariae Wint.
Septoria Cephalariae Kalchbr.

Cephalaria ustulata R. & S.

Aecidium Cephalariae Syd.
Phyllosctcta Cephalariae Wint.

Scabiosa atropurpurea Linn.

Rhizoctonia sp.

Scabiosa columbaria Linn.

Septoria scabiosicola Desm.

CUCURBITACEAE.

Cephalandra palmata Cogn.

=Coccinea palmata Cogn.

Cephalandra quinquiloba Sch.

=Coccinea quinqueloba Cogn.

Cephalandra sessilifiora Sond.

=Coccinea sessilifolia Cogn.

Citrullus vulgaris Schrad.

Peronoplasmopara cubensis (Berk. & Curt.) Clint.
Erysiphe cichoracearum DC.
Didymella Lycopersici Kleb.
Colletotrichum lagenarium (Pass.) Ell. & Halst.

Alternaria cucumerina (Ell. & Everh.) Elliott
Fusarium bulbigenum Cooke & Mass. var. niveum (E. F. Sm.) Wollenw.

Coccinea indica Wight & Arn.

Puccinia Cephalandrae Thuem.

Coccinea palmata Cogn.

Puccinia Cephalandrae Thuem.

Coccinea quinqueloba Cogn.

Puccinia Cephalandrae Thuem.

Coccinea sessilifolia (Sond.) Cogn.

Puccinia Cephalandrae Thuem.
Erysiphe cichoracearum DC.

Coccinea sp. indet.

Puccinia Cephalandrae Thuem.

Cucumis Melo Linn.

Peronoplasmopora cubensis (Berk. & Curt.) Clint.
Erysiphe cichoracearum DC.
Cladosporium cucumerinum Ell. & Arth.fi
Alternaria cucumerina (Ell. & Everh.) Elliott
Macrosporium sarcinula Berk.
Fusarium avenaceum (Fr.) Sacc.
Fusarium oxysporum Schlecht.

Cucumis sativus Linn.

Peronoplasmopora cubensis (Berk. & Curt.) Clint.
Erysiphe cichoracearum DC.
Colletotrichum lagenarium (Pass.) Ell. & Halst.
Cladosporium cucumerinum Ell. & Arth.
Cercospora sp.
Fusarium Equiseti (Corda) Sacc.
Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Fautr. var. compactum Wollenw.

Cucumis sp. indet.

Puccinia Cephalandrae Thuem.

Cucurbita maxima Duch.

Erysiphe cichoracearum DC.
Didymella Lycopersici Kleb.
Fusarium javanicum Koord.

Cucurbita Pepo Linn.

Pythium aphanidermatum (Eds.) Fitz.
Pythium oligandrum Drechsl.

Erysiphe cichoraceaeum DC.
? Phyllosticta orbicularis Ell. & Everh.
Septoria Citrulli Ell. & Everh.
Septoria cucurbitacearum Sacc.
Colletotrichum lagenarium (Pass.) Ell. & Halst.
Alternaria cucumerina (Ell. & Everh.) Elliott
Fusarium javanicum Koord.
Fusarium Scirpi Lamb. & Fautr.

Kedrostis punctulata Cogn.
Puccinia Cephalandrae Thuem.

Lagenaria leicantha Rusby
Erysiphe cichoracearum DC.

Luffa cylindrica (Lour.) Roem.
Erysiphe cichoracearum DC.

Melothria punctata (Thunb.) Cogn.
Puccinia Cephalandrae Thuem.
Uredo Zehneriae Thuem.

Momordica balsamina Linn.
Puccinia Cephalandrae Thuem.

Momordica clematidea Sond.
Erysiphe cichoracearum DC.

Momordica cordifolia Sond.
=Momordica foetida Schum. & Thom

Momordica foetida Schum. & Thom
Puccinia Cephalandrae Thuem.
Cercospora Momordicae McRae

Sechium edule Sw.
Pythium aphanidermatum (Eds.) Fitz.

Telfairia pedata Hook.
? Didymella Lycopersici Kleb.

Trochomeria macrocarpa Hk. f.
Puccinia Cephalandrae Thuem

Trochomeria sagittata (Harv.) Cogn.
Puccinia Cephalandrae Thuem.

Zehneria scabra Sond.

=Melothria punctata (Thunb.) Cogn.

CAMPANULACEAE.

Campanula Medium Linn.

Fusarium Scirpi Lamb. & Fautr. var. compactum Wollenw.
Sclerotium Rolfsii Sacc.
Rhizoctonia sp.

Lobelia stellarioides Benth. & Hook.

Asterina xumenensis Doidge

COMPOSITAE.

Arctotis sp. indet.

Plasmopora sp.

Artemisia afra Jacq.

Anthostomella africana (Kalchbr. & Cooke) Sacc.
Leptosphaeria cervispora (Kalchbr. & Cooke) Sacc.
Leptosphaeria Owaniae (Kalchbr. & Cooke) Sacc.
Metasphaeria metuloidea (Kalchbr. & Cooke) Sacc.
Pleospora lanceolata (Kalchbr. & Cooke) Sacc.
Pleospora refracta (Kalchbr. & Cooke) Sacc.
Puccinia Absinthii DC.
Chaetomella Artemisiae Cooke
Macrophoma Artemisiae (Kalchbr. & Cooke) Berl. & Vogl.

Aster amellus Linn.

Oidium sp.

Aster Bakerianus Burtt Davy

? Aecidium flustra Berk.
Aecidium Woodianum Doidge
Puccinia Feliciae (Syd.) Doidge

Aster Novi-Angliae Linn.

Rhizoctonia sp.

Aster Peglerae Bolus

? Aecidium Woodianum Doidge

Aster spp. indet.

Erysiphe cichoracearum DC.
Alternaria macrospora Zimm.

Berkheya (Stobea epitrachys DC).

Puccinia Stoboeae MacOwan var. Woodii Syd.

Berkheya (Stobeoa insignis Harv.)
Puccinia Stoboeae MacOwan

Berkheya Kuntzei O. Hoffm.
Puccinia Stoboeae MacOwan

Berkheya latifolia Wood & Evans
Puccinia Stoboeae MacOwan
Cladosporium Berkheyae Syd.

Berkheya (Stobea membranifolia DC.)
Puccinia Stoboeae MacOwan

Berkheya seminivea Harv. & Sond.
Puccinia Stoboeae MacOwan var. Woodii Syd.

Berkheya setifera DC.
Puccinia berkheyicola Doidge
Puccinia Stoboeae MacOwan var. Woodii Syd.

Berkheya speciosa O. Hoffm.
Puccinia Stoboeae MacOwan
Cladosporium Berkheyae Syd.

Berkheya umbellata DC.
Puccinia Stoboeae MacOwan var. Woodii Syd.

Berkheya spp. indet.
Puccinia Stoboeae MacOwan
Puccinia Stoboeae MacOwan var. Woodii Syd.

Bidens pilosa Linn.
Sphaerotheca fuliginea (Schlecht.) Salm.
Entyloma Bidentis P. Henn.
Uromyces Bidentis L.

Bidens bipinnata Linn.
Entyloma Bidentis P. Henn.

Brachylaena dentata (Thunb.) Less.
=Brachylaena glabra (Linn. f.) Druce

Brachylaena discolor DC.
Cycloschizon Brachylaenae (Rehm.) P. Henn.
Uredo Brachylaenae Doidge

Brachylaena elliptica (Thunb.) Less.

Cycloschizon Brachylaenae (Rehm) P. Henn.
Uredo Brachylaenae Doidge

Brachylaena glabra (Linn. f.) Druce

Cycloschizon Brachylaenae (Rehm) P. Henn'

Brachylaena nerifolia (Linn.) R. Br.

Cycloschizon Brachylaenae (Rehm) P. Henn.
Uredo Brachylaenae Doidge

Brachylaena rotundata S. Moore

Uredo Brachylaenae Doidge

Brachylaena transvaalensis Phill. & Schw.

Uredo Brachylaenae Doidge

Brachylaena spp. indet..

Cycloschizon Brachylaenae (Rehm) P. Henn.
Uredo Brachylaenae Doidge

Calendula officinalis Linn.

Rhizoctonia sp.

Calendula sp. indet.

Entyloma Calendulae (Oud.) de Bary

Callistephus chinensis Nees

Pythium ultimum Trow
? Alternaria macrospora Zimm.
Fusarium conglutinans Wollenw. var. Callistephi Beach
Fusarium Scirpi Lamb. & Fautr.

Carthamus tinctorius Linn.

Alternaria macrospora Zimm.

Cenia turbinata Per.

Cystopus cubicus (Strauss) de Bary

Centaurea Cyanus Linn.

Puccinia Cyani (Schleich.) Pass.
Fusarium Scirpi Lamb. & Fautr.
Rhizoctonia sp.

Centaurea moschata Linn.

Phytophthora cactorum (Leb. & Cohn) Schroet.
Fusarium Solani (Mart.) var. Martii (Appel & Wollenw.) f. 1. Wollenw.
Fusarium vasinfectum Atk. var. lutulatum (Sherb.) Wollenw.

Chrysanthemum cinerariifolium Viz.
Phytophthora cryptogea Pethybr. & Laff.
Fusarium javanicum Koord. var. radicicola Wollenw.

Chrysanthemum Leucanthemum Linn.
Septoria cercosporioides Trail

Chrysanthemum maximum Ram.
Septoria Chrysanthemi Allesch.
Rhizoctonia sp.

Chrysanthemum morifolium Ram.
Puccinia Chrysanthemi Roze
Septoria Chrysanthemi Allesch.
Cylindrosporium Chrysanthemi Ell. & Dearn.
Oidium Chrysanthemi Rabenh.

Chrysanthemum sp. indet.
Epicoccum Chrysanthemi du Pless.

Cichorium Intybus Linn.
Puccinia Cichorii (DC.) Bell
Thielaviopsis basicola (Berk. & Br.) Ferraris
Cercospora Cichorii J. J. Davis

Cineraria sp. indet.
Cystopus cubicus (Strauss) de Bary

Conyza incisa Ait.
=Conyza ulmifolia (Burm.) O. Kze

Conyza ivarfolia Less.
Aecidium MacOwanianum Thuem.

Conyza limosa O. Hoffm.
Aecidium Hoffmannii Syd.

Conyza pinnata (Linn. f.) O. Kze.
Aecidium Conyzae-pinnatilobatae Syd.

Conyza podocephala DC.
Aecidium Conyzae-pinnatilobatae Syd.

Conyza ulmifolia (Burm.) O. Kze.
Aecidium MacOwanianum Thuem.

Coreopsis sp. indet.
Sphaerotheca fuliginea (Schlecht.) Salm.

Cosmos bipinnatus Cav.

Sphaerotheca fuliginea (Schlecht.) Salm.

Cotula coronopifolia Linn.

Synchitrium Cotulae du Pless.

Cryptostemma calendulaceum R. Br.

Septoria perforans McAlp.

Dahlia pinnata Cav.

Pythium acanthicum Drechsl.
Pythium ultimum Trow
Entyloma Dahliae Syd.
Botrytis cinerea Pers.
Trichothecium roseum Link
? Alternaria Violae Gall. & Dors.
Cercospora grandissima Rang.
Sclerotium Rolfsii Sacc.

Denekia capensis Thunb.

Aecidium Denekiae Doidge

Dimorphotheca spectabilis Schlecht.

Puccinia Dimorphothecae Pole Evans

Dimorphotheca Zeyheri Sond.

Puccinia Dimorphothecae Pole Evans
Aecidium Serrae Syd.

Dimorphotheca spp. indet.

Cystopus cubicus (Strauss) de Bary
Aecidium Serrae Syd.
Oidium sp.

Diplopappus asper Less.

=Aster Bakerianus Burtt Davy

Elytropappus rhinocerotis Less.

Aecidium Elytropappi P. Henn.
Fomes McGregori Bres.

Euryops multifidus DC.

Oidium sp.

Felicia aspera Burtt Davy

=Aster Bakerianus Burtt Davy

Gaillardia pulchella Foug.

Phoma Gaillardiae du Pless.
Oidium sp.

Gerbera ambigua Sch. Bip.

Puccinia Gerberae Pole Evans

Gerbera Burmanni Cass.

Pleospora Gerberae Dipp.
Septoria Gerberae Syd.

Gerbera cordata Less.

Asterina gerbericola Doidge

Gerbera discolor Sond.

Puccinia Gerberae Pole Evans
Septoria Gerberae Syd.

Gerbera Jamesoni Bolus

Cystopus cubicus (Strauss) de Bary
Septoria Gerberae Syd.
Oidium sp.
Alternaria macrospora Zimm.
Sclerotium Rolfsii Sacc.

Gerbera Kraussii Sch. Bip.

Puccinia Gerberae Pole Evans

Gerbera piloselloides Cass.

Asterina gerbericola Doidge

Gerbera plantaginea Harv.

Cystopus cubicus (Strauss) de Bary
Puccinia Gerberae Pole Evans

Gerbera spp. indet.

Puccinia Gerberae Pole Evans
Puccinia gerbericola Doidge

Helianthus annus Linn.

Cystopus Tragopogonis (Pers.) Schroet.
Puccinia Helianthi Schw.
Septoria Helianthi Ell. & Kellerm.
Macrosporium sp.
Sclerotium Rolfsii Sacc.

Helianthus tuberosus Linn.

Acremonium sp.
Cercospora sp.

Helichrysum acutatum DC.

Parodiellinopsis transvaalensis Hansf.
Puccinia Pienarii Pole Evans
Septoria Helichrysi Syd.

Helichrysum capitellatum (Thumb.) Less.

Puccinia Kalchbrenneri de Toni

Helichrysum coriaceum Sond.

Puccinia Kalchbrenneri de Toni var. valida Doidge
Gloeosporium Helichrysi Wint.

Helichrysum floccosum Klatt.

=Helichrysum acutatum DC.

Helichrysum latifolium (Thunb.) Less.

Aecidium Helichrysi Doidge

Helichrysum leiopodium DC.

=Helichrysum nudifolium (Linn.) Less. var. leiopodium Moeser

Helichrysum miconiaefolium DC.

Aecidium Helichrysi Doidge

Helichrysum nudifolium (Linn.) Less.

Puccinia Kalchbrenneri de Toni

Helichrysum nudifolium Less. var. **leipodium** (DC.) Moeser

Puccinia Kalchbrenneri de Toni
Puccinia Kalchbrenneri de Toni var. valida Doidge
Aecidium Helichrysi Doidge
Septoria Helichrysi Syd.

Helichrysum nudifolium Less. var. **quinquenerve** (Thunb.) Moeser

Puccinia Kalchbrenneri de Toni

Helichrysum pannosum DC.

Puccinia Kalchbrenneri de Toni

Helichrysum petiolatum DC.

Puccinia MacOwani Wint.
Aecidium Helichrysi Doidge

Helichrysum quinquenerve Less.

=Helichrysum nudifolium Less. var. quinquenerve (Thunb.) Moeser

Helichrysum setosum Harv.

Gloeosporium Helichrysi Wint.

Helichrysum undatum (Thunb.) Less.

Puccinia Kalchbrenneri de Toni
Gloeosporium Helichrysi Wint.

Helichrysum spp. indet.

Leptosphaeria Helichrysi (Cooke) Sacc.
Sphaerella maculicola Wint.
? Telimena corticicola Doidge
? Melampsora puccinoiides Wint.
Puccinia Kalchbrenneri de Toni
Puccinia Kalchbrenneri de Toni var. valida Doidge
Puccinia Pienarii Pole Evans
Aecidium Helichrysi Doidge
Septoria Helichrysi Syd.
Gloeosporium Helichrysi Wint.

Helipterum roseum Benth.

Oidium sp.

Hypochaeris radicata Linn.

Puccinia Hypochaeridis Oud.

Lactuca sativa Linn.

Pythium de Baryanum Hesse
Sclerotinia sclerotiorum (Lib.) de Bary
Septoria Lactucae Pass.
Macrosporium sarcinula Berk.
Rhizoctonia Solani Kuhn.

Melanthera Brownei Sch. Bip.

Uromyces Melantherae Cooke

Metalasia muricata Less.

Aecidium Metalasiae Syd.

Mikania capensis DC.

Schiffnerula compositarum (Theiss.) Petr.

Nestlera conferta Doidge

Aecidium Nestlerae Doidge

Nidorella hottentotica DC. var. **lanata** Harv.

Aecidium Nidorellae Doidge

Nidorella mespilifolia DC.

Puccinia aecidiiformis Thuem.

Osteosporum moniliferum Linn.
Aecidium Osteospermi Doidge
Ascochyta atropunctata Wint.
Septoria Osteospermi Dipp.

Osteospermum sp. indet.
Hendersonia Osteospermi Wakef.

Othonna natalensis Sch. Bip.
Puccinia Othonnae Doidge

Pentzia globosa Less.
Aecidium Pentziae-globosae Doidge

Printzia Huttoni Harv.
Puccinia Printziae Thuem.

Printzia pyrifolia Less.
Cladosporium laxum Kalchbr. & Cooke

Pyrethrum sp. indet. (? =Chrysanthemum cinerariaefolium Vize)
Phytophthora cryptogea Pethybr. & Laff.

Relhania ericoides Cass.
Aecidium Relhaniae Dipp.

Rudbeckia sp. indet.
Rhizoctonia sp.

Scorzonera hispanica Linn.
Cystopus Tragopogonis (Pers.) Schroet.

Senecio angustifolia Willd.
Cystopus cubicus (Strauss) de Bary

Senecio bipinnatus Less.
Puccinia Byliana Dipp.

Senecio Burchellii DC.
Puccinia Byliana Dipp.

Senecio concolor DC.
Aecidium incertum Syd.

Senecio coronatus Harv.
Aecidium Moggii Doidge

Senecio cruentus DC.

Oidium sp.
Macrosporium sp.

Senecio deltoides Less.

Aecidium anceps Syd.

Senecio fraudulentus Phill. & Sw.

Aecidium permultum Syd.

Senecio inaequidens DC.

Cystopus cubicus (Strauss) de Bary

Senecio integrifolius DC.

Puccinia Byliana Dipp.

Senecio laevigatus Thunb.

Aecidium incertum Syd.

Senecio latifolius DC.

Aecidium dubiosum Syd.
Oidium sp.

Senecio littoreus Thunb.

Puccinia Byliana Dipp.

Senicio longifolius Linn.

Didymella intercepta (Kalchbr. & Cooke) Sacc.

Senecio mikanioides Otto

Aecidium dubiosum Syd.

Senecio orbicularis Sond.

Cystopus cubicus (Strauss) de Bary

Senecio pandurifolius Harv.

Puccinia oedipus Cooke

Senecio pellucidus DC. var. **ruderalis** Harv.

Cystopus cubicus (Strauss) de Bary

Senecio pentactinus Klatt.

Puccinia pentactina Doidge

Senecio pinnulatus Thunb.

Cystopus cubicus (Strauss) de Bary
Puccinia Byliana Dipp.

Senecio pleistocephalus S. Moore
Aecidium dubiosum Syd.

Senecio quinquelobus DC.
Metasphaeria brachiata (Kalchbr. & Cooke) Sacc.
Aecidium anceps Syd.

Senecio serra Sond.
=Senecio fraudulentus Phill. & Sm.

Senecio tamoides DC.
Aecidium dubiosum Syd.

Senecio vulgaris Linn.
Puccinia Byliana Dipp.

Senecio spp. indet.
Cystopus cubicus (Strauss) de Bary
Puccinia Byliana Dipp.
Puccinia oedipus Cooke
Aecidium incertum Syd.
Dothiorella Senecionis (Alm. & Cam.) Petr.
Oidium sp.
Sclerotium Rolfsii Sacc.

Sonchus spp. indet.
Puccinia Liebenbergii Doidge
Oidium sp.

Spilanthes acmella Linn.
Puccinia africana Cooke

Spilanthes africana DC.
Puccinia africana Cooke

Tarchonanthus sp. indet.
Septobasidium philippense Couch

Tripteris hyoseroides DC.
Colletotrichum sp.

Tripteris pachypteris Harv.
Oidium sp.

Vernonia amygdalina Del.
Oidium sp.

Vernonia angulifolia DC.

Dimeriella claviseta Doidge
Puccinia vernoniicola P. Henn.

Vernonia corymbosa Less.

Puccinia inflorescenticola Pole Evans

Vernonia glabra Vatke

Puccinia le Testui Maubl.

Vernonia hirsuta Sch. Bip.

? Puccinia Vernoniae Cooke non Schw.

Vernonia monocephala Harv.

Puccinia Koedoeënsis Doidge
Aecidium Vernoniae-monocephalae Doidge

Vernonia podocoma Sch. Bip.

Puccinia inflorescenticola Pole Evans
Aecidium Vernoniae-podocomae Doidge

Vernonia senegalensis Less.

Melampsora Junodii Doidge

Vernonia spp. indet.

Puccinia le Testui Maubl.
? Puccinia Vernoniae Cooke
Aecidium banketensis Hopkins

Zinnia elegans Jacq.

Pythium splendens Braun
Cercospora Zinniae Ell. & Mart.

Zinnia pauciflora Linn.

Entyloma Zinniae Syd.

Zinnia sp. indet.

Alternaria macrospora Zimm.
Oidium sp.

ANIMALIA.

HEXAPODA

ISOPTERA.

TERMITIDAE.

Fungi listed are not parasitic on Termitidae, but definitely associated with these insects and growing on ' comb ' in or " fungus garden " in or above. termite nests.

Odontotermes badius Hav.

Xylaria nigripes (Klotzsch) Cooke
Collybia albuminosa (Berk.) Petch
Entoloma microcarpum (Berk. & Br.) Sacc.

Odontermes transvaalensis Sjost.

Entoloma micoicarpum (Berk. & Br.) Sacc.

Termes vulgaris Hav.

Entoloma microcarpum (Berk. & Br.) Sacc.

Termitidae indet.

Xylaria nigripes (Klotzsch) Cooke
Collybia albuminosa (Berk.) Petch
Entoloma microcarpum (Berk. & Br.) Sacc.
Schulzeria Umkowaan (Cooke & Mass.) Sacc.
Podaxis pistillaris (Linn. ex Pers.) Fr.
Aspergillus flavus Link

ORTHOPTERA

ACRIDIIDAE.

Aeolopus sp. indet.

Empusa Grylli Fres.

Glaphyracris cyanea Stall.

Empusa Grylli Fres.

Locustana pardalina Walk.

Empusa Grylli Fres.
Isaria sp.

Nomadacris septemfasciata Serv.

Cunninghamella sp.
Mucor exitiosus Mass.
Mucor racemosus Fres.
Empusa Grylli Fres.
Beauveria Bassiana (Bals.) Vuill.
Beauveria globulifera (Speg.) Picard.
Metarrhizium anisopliae (Metsch.) Sorokin

Sporotrichum paranense Marc.
Fusarium chlamydosporum Wollenw. & Reinking
Fusarium moniliforme Sheld. var subglutinans Wollenw.
Fusarium Scirpi Lamb. & Fautr.
Fusarium Scirpi Lamb. & Fautr. var. filiferum (Preuss) Wollenw.
Fusarium semitectum Berk. & Rav. var. majus Wollenw.
Fusarium Solani (Mart.) var. Martii (Appel & Wollenw.) f. 1. Wollenw.

Oedalus sp. indet.
Empusa Grylli Fres.

Acridiidae indet.
Empusa Grylli Fres.

GRYLLIDAE.

Gryllus sp. indet.
Sorosporella sp.

HEMIPTERA

APHIDIDAE.

Aphis spp. indet.
Entomophthora Aphidis Hoffm.

CERCOPIDAE.

Locris arithmetica Walk.
Entomophthora apiculata Thaxt.

COCCIDAE.

Aonidiella aurantii Mask.
Fusarium coccophilum (Desm.) Wollenw. & Reinking

Aspidiotus furcillae Brain
Fusarium coccophilum (Desm.) Wollenw. & Reinking

Aspidiotus perniciosus Comst.
Fusarium coccophilum (Desm.) Wollenw. & Reinking

Aspidiotus rapax Comst.
Fusarium coccophilum Wollenw. & Reinking

Ceroplastes sp. indet.
Fusarium lateritium Nees

Chionaspis sp. indet.
Fusarium coccophilum (Desm.) Wollenw. & Reinking

Dactylopius opuntiae Ckll.
Empusa Lecanii Zimm.

Furcaspis Proteae Brain

Aspergillus sp.

Icerya Purchasi Mask.

Fusarium Scirpi Lamb. & Fautr.

Lepidosaphes Gloveri Pack

Myriangium Montagnei Berk.
Podonectria coccicola (Ell. & Everh.) Petch
Fusarium coccophilum (Desm.) Wollenw. & Reinking
Fusarium lateritium Nees
Fusarium sambucinum Fuck.
Fusarium sambucinum Fuck. f. 2. Wollenw.
Tetracium rectisporum (Cooke & Mass.) Petch

Lepidosaphes pinnaeformis Bouché

Tetracium rectisporum (Cooke & Mass.) Petch

Parlatoria Zizyphi Lucas

Fusarium coccophilum (Desm.) Wollenw. & Reinking
Tetracium rectisporum (Cooke & Mass.) Petch

Coccidae indet.

Myriangium Montagnei Berk.
Chaetosphaeria insectivora Hansf.
Septobasidium spp. listed on various plant hosts are associated with Coccidae.
Aspergillus sp.
Fusarium coccophilum (Desm.) Wollenw. & Reinking.

PENTATOMIDAE.

Callidea natalensis ? Auct.

Eucantharomyces africanus Thaxt.

Callidea sp. indet.

Eucantharomyces africanus Thaxt.

COLEOPTERA:

BRUCHIDAE.

Caryopemon cruciger Steph.

Aspergillus glaucus Link

CARABIDAE.

Brachynus armiger Dej.

Laboulbenia bilabiata Thaxt.

Drypta ruficollis Dej.

Laboulbenia Dryptae Thaxt.

CURCULIONIDAE.

Gonipterus scutellatus Gyl.
Isaria sp.

Sciobius granosus Gyl.
Metarrhizium anisopliae (Metsch) Sorokin

ELATERIDAE.

Elateridae indet. (larvae)
Cordiceps velutipes Mass.

GYRINIDAE.

Orectogyrus suturalis Req.
Laboulbenia anomala Thaxt.

MELOLONTHIDAE.

Trocalus fulgidus Fabr.
Entomophthora apiculata Thaxt.

RUTELIDAE.

Adoretus ictericus Burm.
Entomophthora apiculata Thaxt.

STAPHYLINIDAE.

Atheta obtusidius Epp.
Monoicomyces zealandicus Thaxt.

Conosoma angustum Bernh.
Stichomyces capensis Thaxt.

Dolichaon lathrobioides Casteln.
Rhacomyces Dolichaontis Thaxt.

DIPTERA.

ANTHOMYIDAE.

Anthomyidae indet.
Entomophthora apiculata Thaxt.

DIOPSIDAE.

Diopsidae indet.
Rhizomyces confusus Thaxt.

GLOSSINAE.

Glossina sp. indet.
Fusarium semitectum Berk. & Rav. var. majus Wollenw.

MUSCIDAE.

Musca domestica Linn.
Empusa Msucae Cohn

Stomoxys calcitrabs Linn.
Empusa Muscae Cohn

Muscidae indet.
Empusa Muscae Cohn

TIPULIDAE.

Nephrotoma umbripennis Alex.
Empusa glomerata Sorokin

Nephrotoma unicingulata Alex.
Empusa apiculata Thaxt.

HYMENOPTERA.

FORMICIDAE.

Camponotus sp.
Entomophthora coronata (Cost.) Kev.

LEPIDOPTERA.

GEOMETRIDAE.

Geometridae indet.
Entomophthora apiculata Thaxt.

LASIOCAMPIDAE.

Pachypasa capensis Aur.
Entomophthora apiculata Thaxt.

LYCAENIDAE.

Lycaenidae indet.
Entomophthora apiculata Thaxt.

NOCTUIDAE.

Euxoa segetis Schiff.
Entomophthora megasperma Cohn
Sorosporella uvella (Krauss) Giard.

Lycophotia muscosa Geyer
Entomophthora apiculata Thaxt.

PSYCHIDAE.

Acanthopsyche junodi Heyl
Entomophthora sp.
Isaria Psychidae Pole Evans

PYRALIDAE.

Cactoblastis cactorum Berg.

Beauvaria bassiana (Bals.) Vuill.

SATURNIIDAE.

Naudaurelia tyrrhaea Gram.

Empusa sp.
Isaria sp.

TORTRICIDAE.

Argyroploce leucotreta Meyr.

? Gliocladium roseum (Link.) Baun.

PLUTELLIDAE.

Plutella maculipennis Curt.

Entomophthora sphaerosperma Fres.

Hexapoda indet.

Cordyceps flabella Berk. & Curt.

ARACHNIDA.

Lycosidae indet.

Gibellula aranearum (Schw.) Syd.

VERTEBRATAE.

Goldfish (Cyprinus auratus)

Saprolegnia ferax Auct.

Frog (Ranidae indet.)

Saprolegnia ferax Auct.

Aviary Birds

Aspergillus fumigatus Fres.

Common Fowl (eggs)

Fusarium moniliforme Sheld.
Fusarium semitectum Berk. & Rav. var. majus Wollenw.

Duck (**Anatidae** indet.)

Aspergillus fumigatus Fres.

Ostrich (**Struthio australis**)

Aspergillus fumigatus Fres.

Penguin (**Spheniscus demursus**)

Aspergillus fumigatus Fres.

Cattle

Actinomyces bovis Harz

Horse

Rhinosporidium Seeberi (Wernicke) Seeber
Sporotrichum Schenckii Matruchot

Mule

Rhinosporidium Seeberi (Wernicke) Seeber

Sheep

Schizosaccharomyces ovis Quin
Actinomyces dermatonomus Bull.

Man

Hanseniospora Guillermondii Pijper
Rhinosporidium Seeberi (Wernicke) Seeber
Histoplasma capsulatum Darling
Geotrichum rugosum (Castellani) Dodge
Candida bethaliensis (Pijper) Dodge
? Candida Krusei (Castellani) Basgal
Parendomyces zeylanicus (Castellani) Dodge
? Castellania balcanica (Castellani & Chalmers) Dodge
Castellania linguae-pilosae (Lucet) Dodge
? Castellania pseudolondinensis (Castellani & Chalmers) Dodge
? Castellanoa pseudotropicalis (Castellani) Dodge
? Castellania sp.
Mycotoruloides triadis Langeron & Talice
Saccharomyces spp.
Cryptococcus histolycus Stoddard & Cutler
Cryptococcus sp.
Malassezia furfur (Robin) Baillon
Epidermophyton interdigitale (Priestley) McCarthy
Epidermophyton floccosum (Harz) Langeron & Milochevitch
Epidermophyton ? purpureum (Bang) Dodge
Epidermophyton rubrum Castellani
Endodermophyton africanum Dodge
Ectotrichophyton mentogrophytes (Robin) Castellani & Chalmers
Megatrichophyton roseum (Bodin) Dodge
Favotrichophyton violaceum (Sabouraud) Dodge
Trichophyton sulfureum Sabouraud
Microsporum Audouini Gruby
Achorion Schoenleini (Lebert) Remak
Aspergillus niger v. Tiegh.
Aspergillus versicolor (Vuill.) Tirak
Scopulariopsis sphaerospora ? Auct.
Madurella sp.
Actinomyces africanus (Pijper & Pullinger) Nannizzi
Actinomyces Foulertoni (Chalmers & Christopherson) Sartory
Actinomyces Leishmani (Chalmers & Christopherson) Sartory & Bailly
Actinomyces Madurae (Vincent) Lachner-Sandoval

Actinomyces Pijperi (Castellani & Chalmers) Sartory & Bailly
Actinomyces pretorianus (Pijper & Pullinger) Nannizzi
Actinomyces transvaalensis (Pijper & Pullinger) Nannizzi
Actinomyces sp.
Sporotrichum Carougeaiu Langeron
Sporotrichum Schencki Matruchot var. Beurmanni (Matruchot & Ramond) Dodge
Gomphinaria Pedrosoi (Brumpt) Dodge
Curvularia spicifera (Bain) Boedijn
Helminthosporium sp.

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LOCALITY INDEX.

The list of localities has been compiled with the assistance of Mr. L. J. Kresfelder. Thanks are due to officials of the Forestry Department for information about forest reserves and plantations, and to Dr. J. C. F. Hopkins for locating places in Rhodesia. Senhor M. G. Beatriz of the Department of Agriculture, Lourenço Marques, has been very helpful in connection with the geography of the colony of Moçambique, of which territory only very poor maps are available. The colony is divided into four provinces: Sul do Save, Manica e Sofala, Quelimane and Porto Amelia. Each province is divided into districts and each district comprises a number of minor divisions named in Portuguese Concelhos and Circumscrições, the former more important and less numerous than the latter. Names of places in Moçambique, therefore, are followed by the name of the district, with that of the Concelho or Circumscricão in brackets, thus:—

Chai–Chai Lourenço Marques (Gaza) Sul do Save, Moçambique

indicates that Chai Chai is in the Concelho de Gaza of the district of Lourenço Marques; province of Sul do Save, Moçambique.

The letters W. M, or E after districts of the Cape Province, indicate in which map—the Western, Midland or Eastern section—of the Cape Province the district is to be found.

It must be understood that the locality index is intended to be used only in connection with the list of species. Place names, especially those of farms, are often repeated in different parts of the country, and the general use of this index might be misleading.

For drafting maps showing districts in the various territories and provinces I am indebted to Miss R. Brown, who also compiled the extended vegetation map from information supplied by Dr. Pole Evans.

Locality.	*District.*	*Province or Territory.*
Aapies River	Pretoria	Transvaal.
Acornhoek	Pilgrims Rest	Transvaal.
Acton Homes	Bergville	Natal.
Addo	Uitenhage	Cape M.
Addo Bush	Uitenhage	Cape M.
Adelaide	Adelaide	Cape E.
Aiais—see Airas.		
Airas	Keetmanshoop	South-West Africa.
Albertinia	Riversdale	Cape M.
Alberton	Germiston	Transvaal.
Alexander Bay	Namaqualand	Cape W.
Alexandria	Alexandria	Cape E.
Alice	Victoria East	Cape E.
Alicedale	Albany	Cape E.
Aliwal North	Aliwal North	Cape E.
Alkmaar	Nelspruit	Transvaal.
Allerton	Pietermaritzburg	Natal.
Alpha (near Olifantsrivier Dam)	Clanwilliam	Cape W.
Amabele	Kingwilliamstown	Cape E.
Amalinda	East London	Cape E.
Amandas	Mazoe	S. Rhodesia.
Amanzi	Uitenhage	Cape M.
Amanzimtoti	Durban	Natal.
Amatikulu	Mtunzini	Natal (Zululand).
Amatola Mts	Kingwilliamstown	Cape E.
Amersfoort	Carolina	Transvaal.
Amsterdam	Ermelo	Transvaal.
Andriesfontein	Kuruman	Cape (Griqualand West).
Angoche Is	Nampula (Antonio Enes)	Niassa, Moçcambique.
Angra Pequena	Lüderitz	South-west Africa.
Appelsbosch	New Hanover	Natal.
Arcadia, Pretoria	Pretoria	Transvaal.
Arcturus	Salisbury	S. Rhodesia.
Aris Drift, see Arris Drift.		

Locality.	*District.*	*Province or Territory.*
Armadillo Creek	Vryburg	Cape (Griqualand West).
Armoedsvlakte	Vryburg	Cape (Griqualand West)
Arris Drift	Namaqualand	Cape W.
Ashburton	Pietermaritzburg	Natal.
Ashbury	Pretoria	Transvaal.
Assegai Bosch	Humansdorp	Cape M.
Assegai Bush—Assegai Bosch.		
Athol	4rmelo	Transvaal.
Auasberge	Windhoek	South-west Africa.
Auckland Forest	Victoria East	Cape E.
Aughrabies Falls (Orange R.)	Gordonia	Cape (East Griqualand).
Auros, near Otavi	Grootfontein	South-west Africa.
Avondale	Salisbury	Southern Rhodesia.
Avontuur	Uniondale	Cape M.
Aylesby	Albany	Cape E.
Baakens River Valley	Port Elizabeth	Cape M..
Baale	Lourenço Marques (Manhiça)	Sul do Save, Moçambique.
Badfontein	Lydenburg	Transvaal.
Bains Kloof	Wellington-Worcester	Cape W.
Balfour	Stockenstroom	Cape E.
Balfour	Heidelberg	Transvaal.
Balgowan	Lions River	Natal.
Balmoral	Knysna	Cape M.
Bambamyoke Forest		Cape E.
Bandolier Kop	Pietersburg	Transvaal.
Banhoek	Stellenbosch	Cape W. .
Banket	Lomagundi	S. Rhodesia.
Bankop	Ermelo	Transvaal.
Bantry Bay	Cape	Cape W.
Barberton	Barberton	Transvaal.
Barchfield ' (Hceg)	Lydenburg	Transvaal.
Barclayville	Nelspruit	Transvaal.
Barkly West	Barkly West	Cape (Griqualand West).
Barrydale	Swellendam	Cape W.
Basche (Drège)=Bashee River.		
Bashee River (lower reaches)	Elliotdale-Willowvale	Cape E.
Bassonsdrift	Gordonia	Cape (Griqualand West).
Bathurst	Bathurst	Cape E.
Baviaans Kloof (old name for Genadendal, q.v.)		
Baviaans Poort	Pretoria	Transvaal.
Baviaans River	Bedford	Cape E.
Baziya	Umtata	Cape E.
Bazuja, see Baziya.		
Beatrice	Hartley	S. Rhodesia.
Bedford	Bedford	Cape E.
Beestekraal	Waterberg	Transvaal.
Begha River Valley	Peddie	Cape E.
Beginsel	Bethal	Transvaal.
Beira	Beira	Manica e Sofala, Moçambique.
Belfast	Belfast	Transvaal.
Bellair	Durban	Natal.
Bellville	Bellville	Cape W.
Belmont Valley	Albany	Cape E..
Belvidere	Knysna	Cape M.
Berea, Durban	Durban	Natal.
Bembesi	Bubi	S. Rhodesia.
Benaauwheidsfontein	Kimberley	Cape (Griqualand West).
Bergplaats	George	Cape M.
Berg Rivier	Wellington	Cape W.
Berlin	Kingwilliamstown	Cape E.
Bermolli	Kimberley	Cape (Griqualand West).
Besters Hoek	Somerset East	Cape M.
Bethal	Bethal	Transvaal.

Locality.	*District.*	*Province or Territory.*
Bethanie	Bethanie	South-west Africa.
Bethlehem	Bethlehem	Orange Free State.
Bezuidenhouts River	Uitenhage	Cape M.
Biesjesvlei	Lichtenberg	Transvaal.
Bilene	Lourenço Marques (Bileni)	Sul do Save, Moçambique.
Bindura	Mazoe	S. Rhodesia.
Birchleigh	Germiston	Transvaal.
Bisley	Pietermaritzburg	Natal.
Bitterfontein	Namaqualand	Cape W.
Bizana	Bizana (Pondoland)	Cape E.
Blairmoor	Ermelo	Transvaal.
Blaauwkrans Kloof	Albany	Cape E.
Blaauwbergstrand	Cape	Cape W.
Blaauwkrantz	Knysna	Cape M.
Blaauwkrantzrivier	Knysna	Cape M.
Blauwvlei	Wellington	Cape W.
Bleakmore	Komgha	Cape E.
Bloemfontein	Bloemfontein	Orange Free State.
Bloubergstrand, see Blaauwbergstrand.		
Bloukransrivier, see Blaauwkrantzrivier.		
Bloukrans, see Blaauwkrantz.		
Blue Lilles Bush	Humansdorp	Cape M.
Bluff, Durban	Durban	Natal.
Blyvooruitzicht	Johannesburg	Transvaal.
Boboli	Lourenço Marques (Marracuene)	Sul do Save, Moçambique
Boekenhout Kloof	Pretoria	Transvaal.
Bokfontein	Brits	Transvaal.
Bokkeveld	Ceres	Cape W.
Bokpoort (Nieuweveld)	Beaufort West	Cape M.
Boksburg	Boksburg	Transvaal.
Boksburg North	Boksburg	Transvaal.
Bollellacarpu	Kuruman	Cape (Griqualand West).
Bon Accord	Pretoria	Transvaal.
Bonza Bay	East London	Cape E.
Boons	Rustenburg	Transvaal.
Bootmans Kop	Stellenbosch	Cape W.
Boroma	Tete(Tete)	Manica e Sofala. Moçambique.
Borrowdale	Salisbury	S. Rhodesia.
Boschberg	Somerset East	Cape M.
Boschfontein	Brits	Transvaal.
Boschfontein	Waterberg	Transvaal.
Boschjemansrivier, see Bushmans River.		
Boschrand	Nelspruit	Transvaal.
Bosmans Crossing	Stellenbosch	Cape W.
Bosplaas	Pretoria	Transvaal.
Botany Bay (? old name for Bantry Bay)	Cape	Cape W.
Botha's Hill	Camperdown	Natal.
Botha's Hill (Grahamstown)	Albany	Cape E.
Bottelary	Stellenbosch	Cape W.
Bot Rivier	Caledon	Cape W.
Boulders	Nelspruit	Transvaal.
Brackels Kloof	Stellenbosch	Cape W.
Brackenfel	Stellenbosch	Cape W.
Bracken Hill	Knysna	Cape M.
Brak Kloof	Rustenburg	Transvaal.
Brakpan	Boksburg	Transvaal
Brandberg Mts., near Cape Cross	Omaruru	South-west Africa.
Branddraai	Lydenburg	Transvaal.
Brander's High Forest	Victoria East	Cape E.
Brandfontein	Bredasdorp	Cape W.
Brandfort	Brandfort	Orange Free State.
Brandvlei	Calvinia	Cape W.
Bredasdorp	Bredasdorp	Cape W.
Breede Rivier	Worcester	Cape W.
Brenton	Knysna	Cape M.

Locality.	*District.*	*Province or Territory.*
Brereton	Wakkerstroom	Transvaal.
Breyton	Ermelo	Transvaal.
Brighton Beach	Durban	Natal.
Brits	Brits	Transvaal
Britstown	Britstown	Cape M.
Broken Hill	Manica	N. Rhodesia.
Bromley	Marandellas	S. Rhodesia.
Bronkhorstspruit	Pretoria	Transvaal.
Brooklands	Pilgrims Rest	Transvaal.
Brooklyn, Pretoria	Pretoria	Transvaal.
Browns Kuil Drift	Rustenburg	Transvaal.
Buccleuch	Pietermaritzburg	Natal.
Buffalo Bay	East London	Cape E.
Buffalo River	East London	Cape E.
Buffel	Lindley	Orange Free State.
Buffelsdrift	Pretoria	Transvaal.
Buffelshoek	Rustenburg	Transvaal.
Buffelsnek	Knysna	Cape M.
Buffelspan, Pillandsberg	Rustenburg	Transvaal.
Buffelspoort	Rustenburg	Transvaal.
Buffelsrivier, see Buffalo River.		
Buffelsvlei	Lydenburg	Transvaal.
Bulaki		Nyasaland.
Bulawayo	Bulawayo	S. Rhodesia.
Bultfontein	Middelburg	Cape M.
Bulwer	Polela	Natal.
Buraco	Mossamedes	Angola.
Burghersdorp	Albert	Cape E.
Burnera	Impendhle	Natal.
Bushmans River	Albany-Alexandria	Cape E.
Bushmans River Valley	Estcourt	Natal.
Butterworth	Butterworth	Cape E.
Buxton	Stockrenstroom	Cape E.
Cabo Delgado	Porto Amelia	Moçambique.
Cabo Negro	Mossamedes	Angola.
Caledon	Caledon	Cape W.
Caledon River	Boundary between	Orange Free State and Basutoland.
Calitzdorp	Oudtshoorn	Cape M.
Calvinia	Calvinia	Cape W.
Cambridge	East London	Cape E.
Camperdown	Camperdown	Natal.
Camps Bay	Cape	Cape W.
Cana	Berea	Basutoland.
Cango Caves	Oudtshoorn	Cape M.
Cango Valley	Oudtshoorn	Cape M.
Canicado	Lourenço Marques (Chibuto)	Sul do Save, Moçambique
Cape Cross	Omaruru	South-west Africa.
Cape Flats	Wynberg	Cape W.
Cape Peninsula	Simonstown-Cape-Wynberg	Cape W.
Cape Point	Simonstown	Cape W.
Capetown	Cape	Cape W.
Caradoc's Bush	Knysna	Cape M.
Carlton	Middelburg	Cape M.
Carnarvon	Carnarvon	Cape M.
Caroca	Mossamedes	Angola.
Caroca River, nr. Cabo Negro	Mossamedes	Agnola.
Carolina	Carolina	Transvaal.
Cashel	Melsetter	S. Rhodesia
Castle Howard	Impendhle	Natal.
Catembe	Lourenço Marques	Sul do Save, Moçambique.
Cathcart	Cathcart	Cape M.
Cathedral Peak	Bergville	Natal.
Cathkin Peak	Estcourt-Bergville	Natal.

Locality.	*District.*	*Province or Territory.*
Cato Ridge	Camperdown	Natal.
Cave Mt.	Graaff Reinet	Cape M.
Vavendish	Durban	Natal.
Caverns, nr. Mont-aux-Sources	Bergville	Natal.
Caversham	Lions Rivers	Natal.
Cazimba	Mossamedes	Angola.
Cedara	Lions River	Natal.
Cedarmont	Standerton	Transvaal.
Ceres	Ceres	Cape W.
Chai-Chai	Lourenço Marques (Gaza)	Sul do Save, Moçambique.
Chakari	Hartley	S. Rhodesia.
Chalasi	Lourenço Marques (Maputo)	Sul do Save, Moçambique.
Champagne Castle	Estcourt	Natal.
Charter	Victoria	S. Rhodesia.
Chasedene	Pietermaritzburg	Natal.
Chase Valley	Pietermaritzburg	Natal.
Cherinda	Lourenço Marques (Manhica)	Sul do Save, Moçambique.
Chibia	Mossamedes	Angola.
Chibuto	Lourenço Marques (Chibuto)	Sul do Save, Moçambique.
Chilimanzi	Chilimanzi	S. Rhodesia.
Chilome	Lower Shire	Nyasaland (Southern Province).
Chimanimani Mts.	Melsetter	S. Rhodesia.
Chinghanguanine	Lourenço Marguqes (Chibuto)	Sul do Save, Moçambique.
Chiperone	Quelimane (Morrumbala)	Zambesia, Moçambique.
Chipinga	Melsetter	S. Rhodesia.
Chirinda Forest	Melsetter	S. Rhodesia.
Chitanda River	Huila	Angola.
Chobela	Lourenço Marques (Magude)	Sul do Save, Moçambique.
Chongueni	Lourenço Marques	Sul do Save, Moçambique.
Christiana	Bloemhof	Transvaal.
Chunespoort	Pietersburg	Transvaal.
Citrusdal	Clanwilliam	Cape W.
City Deep Mine	Johannesburg	Transvaal.
Clairmont	Durban	Natal.
Clanwilliam	Clanwilliam	Cape W.
Claremont	Wynberg	Cape.
Claremont, Pretoria	Pretoria	Transvaal.
Clarens	Bethlehem	Orange Free State.
Claridge	Pietermaritzburg	Natal.
Clocolan	Ficksburg	Orange Free State.
Cloudlands	Umtali	S. Rhodesia.
Clovelly	Simontown	Cape W.
Clydesdale	Umzimkulu	Cape E. (Griqualand East)
Clumber	Bathurst	Cape E.
Coalbrook	Heilbron	Orange Free State.
Coega River	Uitenhage	Cape M.
Coegapoort	Uitenhage	Cape M.
Cold Bokkeveld Mts.	Ceres	Cape W.
Colenso	Estcourt	Natal.
Consolidated Main Reef G.M.	Krugersdorp	Transvaal.
Commadagga	Somerset East	Cape E.
Commando Nek	Brits	Transvaal.
Compensation Beach	Lower Tugela	Natal.
Concession	Mazoe	S. Rhodesia.
Concordia	Knysna	Cape M.
Conney Glen	Knysna	Cape M.
Congella	Durban	Natal.
Conradie's Kloof	Rustenburg	Transvaal.
Constable	Laingsburg	Cape M.
Constantia	Wynberg	Cape W.
Cookhouse	Somerset East	Cape M.
Cookhouse Drift (Groot Visrivier)	Somerset East	Cape M.
Cornforth Hill	Barkly West	Cape (Griqualand West).
Cradock	Cradock	Cape M.
Craigmore	Melsetter	S. Rhodesia.

Locality.	*District.*	*Province or Territory.*
Cramond	Pietermaritzburg	Natal.
Crecy	Waterberg	Transvaal.
Crown Mines	Johannesburg	Transvaal.
Cubango	Cubango	Angola.
Cyferbult	Rustenburg	Transvaal.
Daggafontein Mines	Springs	Transvaal.
Dalmantha	Carolina	Transvaal.
Dalton Bridge	Estcourt	Natal.
Dargle Road	Lions River	Natal.
Darling	Malmesbury	Cape W.
Darwendale	Lomagundi	S. Rhodesia.
Daspoort	Pretoria	Transvaal.
Dassenberg	Malmesbury	Cape W.
Dassie Krantz, Grahamstown	Albany	Cape E.
Davel	Ermelo	Transvaal.
Dawsons	Mazoe	S. Rhodesia.
De Aar	De Aar	Cape M.
Dealesville	Boshof	Orange Free State.
Debbe's Ravine	Pretoria	Transvaal.
De Beer's Rust	Pretoria	Transvaal.
De Deur	Vereeniging	Transvaal.
Deepwalls	Knysna	Cape M.
De Kol	Alexandria	Cape E.
De Kroon	Brits	Transvaal.
De Kuilen	Standerton	Transvaal.
Delmas	Springs	Transvaal.
Derdepoort	Pretoria	Transvaal.
Despatch	Uitenhage	Cape M.
Devil's Knuckles	Pilgrims Rest	Transvaal.
Devils Peak	Cape	Cape W.
De Wagendrift	Pretoria	Transvaal.
DeWildt	Brits	Transvaal.
'Diamond Fields'	Kimberley	Cape (Griqualand West).
Diepgat Kloof	Somerset West	Cape W.
Diepkloof nr. Dullstroom	Belfast	Transvaal.
Diep Rivier	Knysna	Cape M.
Diep Rivier	Wynberg	Cape W.
'Die Swartland'	Malmesbury	Cape W.
Disa Gorge, Table Mt	Cape	Cape W.
Dohne Peak	Stutterheim	Cape E.
Dombashawa	Salisbury	S. Rhodesia.
Dongola	Zoutpansberg	Transvaal.
Donkerbosch	Albany	Cape.
Donkerpoort	Pretoria	Transvaal.
Donnybrook	Polela	Natal.
Dooley	Bergville	Natal.
Doonside	Durban	Natal.
Doornbosch	Somerset East	Cape M.
Dordrecht	Wodehouse	Cape E.
Douglas	Herbert	Cape (Griqualand West).
Driefontein	Zoutpansberg	Transvaal.
Driepoort	Volksrust	Transvaal.
Droogeheuvel	Prince Albert	Cape M.
Drummond	Camperdown	Natal.
Duikerfontein	Durban	Natal.
Duikervallei, Tygerberg	Cape	Cape W.
Duivelsberg, see Devils Peak.		
Duivelskantoor, Kaapsche Hoop	Nelspruit	Transvaal.
Duivelskloof	Letaba	Transvaal.
'Duivels Knackler', see Devils Knuckles.		
Duivelskloof	Letaba	Transvaal.
Duivels Knokler', see Devils Knuckles.		
Dukuduku	Hlabisa	Natal (Zululand).
Dullstroom	Belfast	Transvaal.

Locality.	*District.*	*Province or Territory.*
Dubrody Mission	Uitenhage	Cape M.
Dundairn	Pitermaritzburg	Natal.
Dundee	Dundee	Natal.
Dunkeld	Johannesburg	Transvaal.
Dunmurray	Vryburg	Cape (Griqualand West).
Durban	Durban	Natal.
Durban Roodepoort Deep G.M.	Krugersdorp	Transvaal.
Durbanville	Bellville	Cape W.
Du Toits Kloof	Paarl	Cape W.
Dwarsriviershoek	Stellenbosch	Cape W.
East Ferry, Victoria Falls	Wankie	S. Rhodesia.
East London	East London	Cape E.
Ebb and Flow, Wilderness	George	Cape M.
Ebenezar	van Rhynsdorp	Cape W.
Edendale	Pietermaritzburg	Natal.
Edgehill	Estcourt	Natal.
Ediva	Huila	Angola.
Eikenhof	Johannesburg	Transvaal.
Ehlanzeni	Umsinga	Natal.
Elandsdrift	Rustenburg	Transvaal.
Elandshoek	Nelspruit	Transvaal.
Elandskop	Pietermaritzburg	Natal.
Elandsriver	Uitenhage	Cape M.
Elberta	Krugersdorp	Transvaal.
Eldorado	Lomagundi	S. Rhodesia.
Elgin	Caledon	Cape W.
Elim	Bredasdorp	Cape W.
Elim	Zoutpansberg	Transvaal.
Elliot	Elliot	Cape E.
Eloff	Springs	Transvaal.
Elsenburg	Stellenbosch	Cape W.
Emigratie		Swaziland.
Emmasdale	Heidelberg	Transvaal.
Empalanea	Huila	Angola.
Empangeni	Lower Umfolosi	Natal (Zululand).
Engcobo	Engcobo	Cape E. (Tembuland).
Engelbrechtsdrift	Pretoria	Transvaal.
Ennersdale	Estcourt	Natal.
Enon	Uitenhage	Cape M.
Enselberg	Marico	Transvaal.
Entabeni	Zoutpansberg	Transvaal.
Enterprise		S. Rhodesia.
Entumeni	Eshowe	Natal (Zululand).
Equeefa	Umzinto	Natal.
Erasmus	Pretoria	Transvaal.
Ermelo	Ermelo	Transvaal.
Escombe	Durban	Natal.
Eshowe	Eshowe	Natal (Zululand).
Eskdale	Bulawayo	S. Rhodesia.
Esperanza	Umzinto	Natal.
Essexvale	Umzingwane	S. Rhodesia.
Estcourt	Estcourt	Natal.
Eston	Camperdown	Natal.
Eteza	Lower Umfolosi	Natal (Zululand).
Evelyn Valley	Kingwilliamstown	Cape E.
Ezulweni	Mbabane	Swaziland.
Fairview Gold Mine	Barberton	Transvaal.
Fairy Glen	Pretoria	Transvaal.
False Bay	Between Simonstown and Caledon.	Cape. W.
False Bay	Hlabisa	Natal (Zululand).
Farmer Peck's Valley	Simonstown	Cape W.

Locality.	*District.*	*Province or Territory.*
Fauresmith	Fauresmith	Orange Free State.
Fazendo de Ferrao	Huila	Angola.
Felixburg	Chilimanzi	S. Rhodesia.
Felixton	Lower Omfolosi	Natal (Zululand).
Fern Kloof	Albany	Cape E.
Ferrao da Sola	Huila	Angola.
Fish Hoek	Simonstown	Cape W.
Fish River	Cradock	Cape M.
Flaaukraal	Wodehouse	Cape E.
Flo Forest	Kingwilliamstown	Cape E.
Floradora	Kuruman	Cape (Griqualand West).
Florida Lake	Krugersdorp	Transvaal.
Flynn's Bridge	Knysna	Cape M.
Forbes Reef	Mbabane	Swaziland.
Forest Hall	Knysna	Cape M.
Fort Beaufort	Fort Beaufort	Cape E.
Fort Cunynghame	Stutterheim	Cape E.
Fort Hare	Victoria East	Cape E.
Fort Jackson	East London	Cape E.
Fort Louis	Babanango	Natal (Zululand).
Fortuna Creek	Barberton	Transvaal.
Fort Victoria	Victoria	S. Rhodesia.
Fountains Valley	Pretoria	Transvaal.
Frames' Drift	Port Elizabeth	Cape M.
Franschhoek	Paarl	Cape W.
Franskraal	Smithfield	Orange Free State.
Frantzinas Rust	Barberton	Transvaal.
French Hoek ,see Franschhoek.		
Friedenheim	Bloemfontein	Orange Free State.
Fullers Forest	Fort Beaufort	Cape E.
Gabieshoek	Lydenburg	Transvaal.
Gala Bush	Polela	Natal.
Gamtoos River Valley	Humansdorp	Cape M.
Gansekraal	George	Cape M.
Garcia's Pass	Riversdale	Cape M.
Garden of Eden	Knysna	Cape M.
Garies	Namaqualand	Cape W.
Garip	Namaqualand	Cape W.
Garstfontein	Pretoria	Transvaal.
Gatooma	Hartley	S. Rhodesia.
Gazaland is now	Melsetter	S. Rhodesia.
Gcuwa River	Kentani-Butterworth	Cape E.
Geduld	Springs	Transvaal.
Geduld Prop. Mines	Springs	Transvaal.
Geelhoutboomberg	George	Cape M.
'Gekau' (Drège)=Gcuwa River?		
Geldenhuys Deep G. M.	Johannesburg	Transvaal.
Genadendal	Caledon	Cape W.
George	George	Cape M.
Giants Castle	Estcourt	Natal.
Gillitts	Pinetown	Natal.
Ginginhlovu	Mtunzini	Natal (Zululand).
Ginginhlovu	Mtunzini	Natal(Zululand).
Glebe Forest	Knysna	Cape M.
Glen	Bloemfontein	Orange Free State.
Glen Avon	Somerset East	Cape M.
Glen Burnie	Ixopo	Natal.
Glen Echo	Durban	Natal.
Glencairn	Cathcart	Cape E.
Glendale	Mazoe	S. Rhodesia.
Glenfillan	Albany	Cape E.
'Glenfilling' see Glenfillan.		
Glenlivet	Victoria	S. Rhodesia.
Gloria	Middelburg	Transvaal.

Locality.	*District.*	*Province or Territory.*
Gnadenthall, see Genadendal.		
Goanekontas	Swakopmund	South-west Africa.
Godwan River	Nelspruit	Transvaal.
Golden Valley	Somerset East	Cape M.
Gondola	Beira (Chimoio)	Manica e Sofala, Moçambique.
Gonubie	East London	Cape E.
Goodoo Bush	Bergville	Natal.
Gordons Bay	Somerset West	Cape W.
Goromonzi	Salisbury	S. Rhodesia.
Goudkopje	Huila	Angola.
Goukamma River	Knysna	Cape M.
Gouna Forest	Knysna	Cape M.
Gouritz River	Mossel Bay-Riversdale	Cape M.
Gqaga	Engcobo	Cape E.
Graafwater	Clanwilliam	Cape W.
Graaff Reinet	Graaff Reinet	Cape M.
Grahamstown	Albany	Cape E.
Graskop	Pilgrims Rest	Transvaal.
Grasmere	Krugersdorp	Transvaal.
Great Brak River	George	Cape M.
Great Karasberg	Warmbad	South West Africa.
Great Kei River, lower reaches	Kentani-Komgha	Cape E.
Great Noodsberg	New Hanover	Natal.
Greefswald, Limpopo River	Zoutpansberg	Transvaal.
Green Point	Cape	Cape W.
Greenville Mission	Bizana	Cape E (Pondoland).
Greylingspos	Brits	Transvaal.
Grey's Pass	Clanwilliam	Cape W.
Greytown	Umvoti	Natal.
Groenekloof	Malmesbury	Cape W.
Groenkloof	Pretoria	Transvaal.
Groenkop	George	Cape M.
Groot Constantia	Wynberg	Cape W.
Groot Drakenstein	Paarl	Cape W.
Grootfontein nr. Harrismith	Harrismith	Orange Free State.
Grootfontein	Grootfontein	South West Africa.
Groot Karaberg—Great Karasberg.		
Grootrivier	Knysna	Cape M.
Groot Schuur	Wynberg	Cape W.
Grootvadersbosch	Swellendam	Cape W.
Groot Vischrivier or Groot Vis-rivier	Cradock–Somerset East–Albany–Peddie.	Cape M–E.
Grootvlei	Heidelberg	Transvaal.
Grootvlei Prop. G.M.	Springs	Transvaal.
Gumtree	Fisksburg.	Orange Free State.
Guru	Grootfontein	South-west Africa.
Gwaai Settlement	Nyamandhlovu	S. Rhodesia.
Gwanda	Gwanda	S .Rhodesia.
Gwebi	Salisbury	S. Rhodesia.
Gwelo	Gwelo	S. Rhodesia.
Gxoqxowe Forest	Kingwilliamstown	Cape E.
Gxulu Forest	Kingwilliamstown	Cape E.
Haakdoornfontein	Pretoria	Transvaal.
Habungu River	Cubango	Angola.
Haenertsburg	Pietersburg	Transvaal.
Haifischbusht	Lüderitz	South Weet Africa.
Haifischinsel	Lüderitz	South West Africa.
Halfway House	Pretoria	Transvaal.
Hamanskraal	Pretoria	Transvaal.
Hamberg	Krugersdorp	Transvaal.
Hamburg	East London	Cape E.
Hamilton Reservoir	Albany	Cape E.
Hanglip, Louis Trichardt	Zoutpansberg	Transvaal.

Locality.	*District.*	*Province or Territory.*
Hankey	Humansdorp	Cape M.
Hanover	Hanover	Cape M.
Harald Forest, see Hovald.		
Harden Heights	Umvoti	Natal.
Hardong	Alfred	Natal.
Harkerville Forest	Knysna	Cape M.
Harrismith	Harrismith	Orange Free State.
Hartebeestfontein	Klerksdorp	Transvaal.
Hartebeestpoort	Brits	Transvaal.
Hartley	Hartley	S. Rhodesia.
Hashlosa Mt.	Estcourt	Natal.
Hatfield	Hartley	S. Rhodesia.
Hatfield, Pretoria	Pretoria	Transvaal.
Hatherley	Pretoria	Transvaal.
Hawston	Caledon	Cape W.
Headlands	Makoni	S. Rhodesia.
Hebron	Pretoria	Transvaal.
Heidelburg (Cape)	Riversdale	Cape M.
Heidelberg	Heidelberg	Transvaal.
Heibron	Heilbron	Orange Free State.
Hekpoort	Krugersdorp	Transvaal.
Helderberg	Somerset West	Cape W.
Helpmekaar, Woodbush	Pietersburg	Transvaal.
Hendricksdal	Pilgrims Rest	Transvaal.
Henley on Klip	Vereeniging	Transvaal.
Henley	Pietermaritzburg	Natal.
Hennops River	Pretoria	Transvaal.
Hercules	Pretoria	Transvaal.
Hereroland		South West Africa.
Hermanus	Caledon	Cape W.
Herzogville	Boshof	Orange Free State.
Hex rivierberg	Ceres-Worcester	Cape W.
Highbury	Polela	Natal.
Highflats	Ixopo	Natal.
Hillarys	Durban	Natal.
Hill Crest, Pretoria	Pretoria	Transvaal.
Hillside	Bulawayo	S. Rhodesia.
Hilton Road	Pietermaritzburg	Natal.
Himeville	Underberg	Natal.
Hippo Pool, Pretorius Kop	Nelspruit	Transvaal.
Hlabini Forest	Polela	Natal.
Hlatikulu Forest	Estcourt	Natal.
Hlinza Forest	Eshowe	Natal (Zululand).
Hluhluwe	Hlabisa	Natal (Zuland).
Hoek van Hellbosch	Letaba	Transvaal.
Hofmans Kloof	Albany	Cape E.
Hogsback	Victoria East	Cape E.
Hoha Forest	Umzimkulu	Cape E (Griqualand East).
Holfontein	Lichtenberg	Transvaal.
Hollandsdrift	Pietersburg	Transvaal.
Home Rule	Underberg	Natal.
Hondjeskuil	Barkly West	Cape (Griqualand West
Honeykloof	Uniondale	Cape M.
Hoofbos, see Main Forest		
Hoogekraalsrivier	? Knysna	Cape.
Hoogfontein	Ladybrand	Orange Free State.
Hopefield	Malmesbury	Cape W.
Hopevale	Polela	Natal.
Horns Nek	Pretoria	Transvaal.
Horo Bush	Barberton	Transvaal.
Horse Shoe Forest	Kingwilliamstown	Cape E.
Hoshlosa Mt., see Hashlosa.		
Hottentots Holland	Somerset West	Cape W.
Hout Bay	Wynberg	Cape W.
Houtboschdorp	Pietersburg	Transvaal.
Houtboschberg	Pietersburg	Transvaal.

Locality.	*District.*	*Province or Territory.*
Houwhoekberg	Caledon	Cape W.
Hovald Forest	Kingwilliamstown	Cape E.
Howick	Lions River	Natal.
Howiesons Poort	Albany	Cape E.
Huila or Huilla	Huila	Angola.
Huisriviersberg	Ladismith-Oudtshoorn	Cape M.
Humansdorp	Humansdorp	Cape M.
Humbe	Huila	Angola.
Humewood	Port Elizabeth	Cape M.
Hunters Road	Gwelo	S. Rhodesia.
Hunyani	Salisbury	S. Rhodesia.
Hysberge	Ladismith	Cape M.
Hysrivierberge see Huisriverisberge.		
Ifafa	Umzinto	Natal.
Ida's Valley	Stellenbosch	Cape W.
Idutywa	Idutywa	Cape E.
Ihluka	Alfred	Natal.
Illovo	Umlazi	Natal.
Illovo River	Pinetown	Natal.
Imbezana	Port Shepstone	Natal.
Imhoff's Gift	Simonstown	Cape W.
Imloega Valley	Umtali	S. Rhodesia.
Immerpan	Potgietersrust	Transvaal.
Impamputo	Lourenço Marques (Sabie)	Sul do Save, Moçambique.
Impendhle	Impendhle	Natal.
Imperani Plantation	Ficksburg	Orange Free State.
Impolweni	New Hanover	Natal.
Imvani	Queenstown	Cape E.
Inaccessible Gorge, Table Mt.	Cape	Cape W.
Inanda	Inanda	Natal.
Inchanga	Camperdown	Natal.
Incomati	Lourenço Marques (Sabie)	Mocambique.
Indumeni Forest	Bergville	Natal.
Infulene	Lourenço Marques (Marracuene)	Sul do Save, Moçambique.
Infulxane	Entonjaneni	Natal (Zululand).
Ingangwane	Pietermaritzburg	Natal.
Ingeli Forest	Alfred	Natal.
Ingogo	Newcastle	Natal.
Ingwavuma	Ingwavuma	Natal (Zululand).
Inhaca Is.	Lourenço Marques	Sul do Save, Moçambique.
Inhambane	Inhambane(Inhambane)	Sul do Save, Moçambique.
Insekeni	Umzimkulu	Cape E (Griqualand East).
Insiza	Insiza	S. Rhodesia.
Insizwa	Mount Ayliff	Cape E (Griqualand East).
Intsimbini	Port St. Johns	Cape E (Pondoland).
Inyanga	Inyanga	S. Rhodesia.
Inyati	Bubi	S. Rhodesia.
Inyazura	Rusapi	S. Rhodesia.
Inyezana River	Mtunzini	Natal (Zululand).
Inzana	Letaba	Trnasvaal.
Irene	Pretoria	Transvaal.
Iron Mine Hill	Gwelo	S. Rhodesia.
Isidenge Plantation	Stutterheim	Cape E.
Isipingo	Durban	Natal.
Ivantâla	Huila	Angola.
Ivy Range	Barberton	Transvaal.
Ixopo	Ixopo	Natal.
Izelini Forest	Kingwilliamstown	Cape E.
Izotsha	Port Shepstone	Natal.
Jakhalsfontein	Prince Albert	Cape M.
Jakhalsrivier	Gordonia	Cape (Griqualand West) .
Jacksonstuin	Brits	Transvaal.

Locality.	*District.*	*Province or Territory.*
Jaggersfontein Mine	Fauresmith	Orange Free State.
Jamestown	Wodehouse	Cape.
Jameson's Drift	Eshowe	Natal (Zululand).
Jan de Boers	Worcester	Cape W.
Jansenville	Jansenville	Cape M.
Jau	Mossamedes	Angola.
Jeffrey's Bay	Humansdorp	Cape M.
Jessievale	Ermelo	Transvaal.
Jihu	Melsetter	S. Rhodesia.
Johannesburg	Johannesburg	Transvaal.
Jongensklip	Caledon	Cape W.
Jonkershoek	Stellenbosch	Cape W.
Joubertina	Uniondale	Cape M.
Juanasberg	Victoria East	Cape E.
Jubilee Mine	Pilgrims Rest	Transvaal.
Jutland	Port Elizabeth	Cape M.
Kaaimansgat	George	Cape M.
Kaaimansgat Forest	Pietersburg	Transvaal.
Kaaimansrivier	George	Cape M.
Kaalfontein	Pretoriae	Transvaal.
Kaalplaats	Pretoria	Transvaal.
Kaapmuiden	Barberton	Transvaal.
Kaapschehoop	Nelspruit	Transvaal.
Kabindere	Cubango	Angola.
Kabusi Plantation	Stutterheim	Cape E.
Kafferfontein	Fauresmith	Orange Free State.
Kagaberg, nr. Bedford	Bedford	Cape E.
Kakamas	Kenhardt	Cape W.
Kalk Bay	Simonstown	Cape W.
Kakele	Huila	Angola.
Kakhea	Kalahari	Bechuanaland Protectorate
Kalkfontein	Warmbad	South West Africa.
Kalolo	Cubango	Angola.
Kamberg	Estcourt	Natal.
Kameeldrift	Pretoria	Transbaal.
Kamieskroon	Namaqualand	Cape W.
Kampuluve R.	Cubango	Angola.
Kandahar Is., Victoria Falls	Wankie	S. Rhodesia.
Kang	Kalahari	Bechuanaland Protectorate
Kanye	Bangwaketsi Reserve	Bechuanaland Protectorate
Karatara	Knysna	Cape M.
Karino	Nelspruit	Transvaal.
Karkloof	Lions River	Natal.
Karree Kloof	Lydenburg	Transvaal.
Kasane or Kasani	Ngamiland	Bechuanaland Protectorate
Kassinga	Huila	Angola.
Kasouga River	Bathurst	Cape E.
Kasteel Poort, Table Mt.	Cape	Cape W.
Katberg	Stockenstroom	Cape E.
Katberg Main Forest	Stockenstroom	Cape E.
Kat River	Stockenstroom–Fort Beaufort	Cape E.
Kat River Valley	Stockenstroom–Fort Beaufort	Cape E.
Kaymansgat, see Kaaimansgat.		
Kazungulu	Batoka	N. Rhosedia.
Keiskama Hoek	Kingwilliamstown	Cape E.
Kenilworth	Wynberg	Cape W.
Kelso Junction	Umzinto	Natal.
Kenhardt	Kenhardt	Cape W.
Keniston	Albany	Cape E.
Kentani	Kentani	Cape E.
Kestell	Bethlehem	Orange Free State.
Kestell Road	Harrismith	Orange Free State.
Keurboom	Knysna	Cape M.
Keurboomsrivier	Knysna	Cape M.

Locality.	*District.*	*Province or Territory.*
Keurkloof Forest	George	Cape M.
Kew, Durban	Durban	Natal.
Key (Drège)=Great Kei River (lower reaches).		
Khami Ruins	Bulawayo	S. Rhodesia.
Khamiesburg	Namaqualand	Cape W.
Khamiskron, see Kamieskroon.		
Kidd's Beach	East London	Cape E.
Kilgobbin	Durban	Natal.
Kimberley	Kimberley	Cape (Griqualand West).
Kincardine	Maclear	Cape E.
Kingwilliamstown	Kingwilliamstown	Cape E.
Kinross	Bethal	Transvaal.
Kirkwood	Uitenhage	Cape M.
Kirstenbosch	Wynberg	Cape W.
Kitive or Kitue	Huila	Angola.
Klaarstroom	Prince Albert	Cape M.
Klapmuts	Paarl	Cape W.
Klapperkop	Pretoria	Transvaal.
Klaver	Van Ryhnsdorp	Cape W.
Klein Australie	Zoutpansberg	Transvaal.
Kleinbrakrivier	Mossel Bay	Cape M.
Klein Drakenstein	Paarl	Cape W.
Klein Karasberg	Keetmanshoop	South West Africa.
Kleinplaat	George	Cape M.
Klein Kruis Rivuer	Riversdale	Cape M.
Kleinrivier	Humansdorp	Cape M.
Klein Vischriver or Klein Visrivier	Somerset East	Cape M.
Klipdam	Barkly West	Cape (Griqualand West).
Klipplaat	Jansenville	Cape M.
Klip River	Klip River	Natal.
Kliptown	Johannesburg	Transvaal.
Kloof, Dordresht	Wodehouse	Cape E.
Kloof	Pinetown	Natal.
Kloof Neck	Cape	Cape.
Kluitze's Kraal	Tulbagh	Cape W.
Klyn Visch Rivier=Klein Vischrivier.		
Knapdaar	Albert	Cape E.
Knockbarragh	Barkly West	Cape (Griqualand West).
Knoetze	Knysna	Cape M.
Knorhoek, Sir Lowry Pass	Somerset West	Cape W.
Knysna	Knysna	Cape M.
Koedoespoort	Pretoria	Transvaal.
Koedoes River	Pitersburg	Transvaal.
Koega RiverC=oega R.		
Koelenhof	Stellenbosch	Cape W.
Koffiefontein	Fauresmith	Orange Free State.
Kögel Bay	Somerset West	Cape W.
Kohi	Huila	Angola.
Kokstad	Mount Currie	Cape E (Griqualand East).
Kologha Forest	Stutterheim	Cape E.
Komati Poort	Barberton	Transvaal.
Komati River	Carolina–Barberton	Transvaal.
Komgha	Komgha	Cape E.
Kommetjie	Simonstown	Cape W.
Koningskroon	Elliot	Cape E.
Kooa	Bangwaketse Reserve	Bechuanaland Protectorate
Koratra=? Karatara.		
Koster	Rustenburg	Transvaal.
Kosterfontein	Rustenburg	Transvaal.
Koster River	Rustenburg	Transvaal.
Kouderivier	Bredasdorp	Cape W.
Kowie	Bathurst	Cape E.
Kraaifontein	Bellville	Cape W.
Kraairivier	Lady Grey–Barkley East	Cape E.
Krabbefontein	Letaba	Transvaal.
Krakakama	Port Elizabeth	Cape M.

Locality.	*District.*	*Province or Territory.*
Krakeel	Uniondale	Cape M.
Kranskop	Kranskop	Natal.
Krantzkloof, now Kloof	Pinetown	Natal.
Krantzpoort	Ermelo	Transvaal.
Kritzinger's Dam	Dordrecht	Cape E.
Kromrivier	Rustenburg	Transvaal.
Kroondal	Rustenburg	Transvaal.
Kroonstad	Kroonstad	Orange Free State.
Krugersdorp	Krugersdorp	Transvaal.
Krugerspost	Lydenburg	Transvaal.
Kruisfontein	Knysna	Cape M.
Kruispad	Stellenbosch	Cape W.
Kruis Rivier	Riversdale	Cape M.
Kubusi	Stutterheim	Cape E.
Kuebe	Cubango	Angola.
Kueio	Cubango	Angola.
Kuilsrivier	Bellville	Cape W.
Kuito River	Cubango	Angola.
Kulei	Cubango	Angola.
Kunene R.	Boundary between	Angola and South West Africa.
Kuruman	Kuruman	Cape W.
Kusisi River	Cubango	Angola.
Kutsi	Huila	Angola.
Kutue River	Cubango	Angola.
Kwambonambi	Lower Umfolosi	Natal.
Kwatsani	Kalahari	Bechuanaland Protectorate
Laaken Vlei	Ceres	Cape W.
Ladismith	Ladismith	Cape M.
Ladybrand	Ladybrand	Orange Free State.
Lady Grey	Lady Grey	Cape E.
Ladysmith	Klip River	Natal.
Laingsburg	Laingsburg	Cape M.
Lake Chrissie	Ermelo	Transvaal.
Lake Ivantâla	Huila	Angola.
Lakeside	Wynberg	Cape W.
Lamberts Bay	Clanwilliam	Cape W.
La Mercy	Inanda	Natal.
Langbaan	Malmesbury	Cape W.
Langeberg	Hay-Kuruman	Cape (Griqualand West).
Langeberg	Swellendam–Riversdale	Cape W–M.
Langewens	Malmesbury	Cape W.
Langholm Estates	Bathurst	Cape E.
Langlaagte Gold Mine	Johannesburg	Transvaal.
Lauterwater	Uniondale	Cape M.
Lawley	Krugersdorp	Transvaal.
Lazingua River	Cubango	Angola.
Lebomba Mts.	Letaba	Transvaal.
Ledzee	Letaba	Transvaal.
Leeuwdoorns	Wolmaranstad	Transvaal.
Leeuwpoort	Carolina	Transvaal.
Lemana	Zoutpansberg	Transvaal.
Leribe	Leribe	Basutoland.
Leslie	Bethal	Transvaal.
Letaba	Letaba	Transvaal.
Letaba Drift	Letaba	Transvaal.
Lichtenburg	Lichtenburg	Transvaal.
Lidgetton	Lions River	Natal.
Likise or Licise	Cubango	Angola.
Linden	Johannesburg	Transvaal.
Linyanti	Ngamiland	Bechuanaland Protectorate
Lions Head	Cape	Cape W.
Lions Rump	Cape	Cape W.

Little Fish River=Klein Visrivier.

Locality.	*District.*	*Province or Territory.*
Livingstone Island	Wankie	S. Rhodesia.
Llandudno	Cape	Cape W.
Llewellyn	Mount Currie	Cape E (East Griqualand).
Lobatsi		Bechuanaland Protectorate
Lomagundi	Lomagundi	S. Rhodesia.
Lonely Mine	Bubi	S. Rhodesia.
Long River	Cubango	Angola.
Long Kloof	Uniondale	Cape M.
Long Ridge	Knysna	Cape M.
Lokenburg	Calvinia	Cape W.
Lopollo	Huila	Angola.
Loskop	Estcourt	Natal.
Loskop Irrigation Dam	Witbank	Transvaal.
Losperfontein	Brits	Transvaal.
Lothair	Ermelo	Transvaal.
Louis Trichardt	Zoutpansberg	Transvaal.
Louisvale	Kenhardt	Cape W.
Lourenço Marques	Lourenço Marques	Sul do Save, Moçambique.
Lourensford	Somerset West	Cape W.
Louws Creek	Barberton	Transvaal.
Lovedale	Victoria East	Cape E.
Lowdale	Salisbury	S. Rhodesia.
'Lowenberg' ?=Leeuwenberg.		
Low Forest	Knysna	Cape M.
Lüderitzbucht	Lüderitz	South West Africa.
Lundie's Hill	Impendhle	Natal.
Luneberg	Paulpietersburg	Natal.
Lupata	Beira (Barue)	Manica e Sofala, Moçambique.
Lusaka	Manica	N. Rhodesia.
Lusikisiki	Lusikisiki	Cape E (Pondoland).
Lydenburg	Lydenburg	Transvaal.
Lydiate	Hartley	S. Rhodesia.
Lyndhurst	Johannesburg	Transvaal.
Lyndoch	Bedford	Cape E.
Lynedoch	Stellenbosch	Cape W.
Lyttleton Junction	Pretoria	Transvaal.
Macequece	Beira (Manica)	Manica e Sofala, Moçambique.
Macheke	Marandellas	S. Rhodesia.
Maciana	Lourenço Marques (Manhica)	Sul do Save, Moçambique.
Maclear	Maclear	Cape E.
Mac Mac Falls	Pilgrims Rest	Transvaal.
Mac Mac Plantation	Pilgrims Rest	Transvaal.
Madanda Forest	Melsetter	S. Rhodesia.
Maele or Mahele	Lourenço Marques (Magude)	Sul do Save, Moçambique.
Mafeking	Mafeking	Cape (Griqualand West).
Magalaquin R. nr. junction with Limpopo R.	Zoutpansberg	Transvaal.
Magliesberg	Krugersdorp	Transvaal.
Magalies River	Pretoria	Transvaal.
Magoebas Kloof	Letaba	Transvaal.
Magude	Lourenço Marques (Magude)	Sul do Save, Moçambique.
Magut	Ngotshe	Natal (Zululand).
Mahlabatini	Nongoma	Natal (Zululand).
Mahotas	Lourenço Marques (Marracuene)	Sul do Save, Moçambique.
Maid of the Mist Mine	Barberton	Transvaal.
Main Forest	Knysna	Cape M.
Maiombo River	Mossamedes	Angola.
Maitland	Wynberg	Cape W.
Makapan Caves	Pretoria	Transvaal.
Makoni	Inyanga	S. Rhodesia.
Makwapala	Southern Province	Nyasland.
Malagazi	Pinetown	Natal.
Malkerns	Mbabane	Swaziland

Locality.	*District.*	*Province or Territory.*
Malcomess	Albert	Cape E.
Malelane	Barberton	Transvaal.
Malmesbury	Malmesbury	Cape W.
Malvern	Durban	Natal.
Mamagalieskraal	Brits	Transvaal.
Mangwendi	Marandellas	S. Rhodesia.
Manhica	Lourenço Marques (Manhiça)	Sul do Save, Moçambique.
Manonge	Cubango	Angola.
Maotas, see Mahotas.		
Manubie Forest	Butterworth	Cape E.
Maputa	Ingwavuma	Natal.
Maputo River	Lourenço Marques (Maputo)	Sul do Save, Moçambique.
Maquassi Ranch	Wolmaranstad	Transvaal.
Mara	Zoutpansberg	Transvaal.
Marabastad	Pretoria	Transvaal.
Maraisberg	Johannesburg	Transvaal.
Maramba	Cubango	Angola.
Marandellas	Marandellas	S. Rhodesia.
Marchand	Kenhardt	Cape W.
Margate	Port Shepstone	Natal.
Mariannhill	Pinetown	Natal.
Marianthall	Ixopo	Natal.
Mariental	Gibeon	South West Africa.
Mariepskop	Pilgrims Rest	Transvaal.
Marikana	Rustenburg	Transvaal.
Maritzburg, see Pietermaritzburg.		
Marracuene	Lourenço Marques (Marracuene)	Sul do Save, Moçambique.
Marral	Quelimane (Zambeze)	Zambezia, Moçambique.
Marromen	Quelimane (Marromen)	Zambezia, Moçambique.
Marwaqa Forest	Polela	Natal.
Maryland	Lomagundi	S. Rhodesia.
Maseru	Maseru	Basutoland.
Mashangani	Arcturus	S. Rhodesia.
Masite	Maseru	Basutoland.
Massenberg	Malmesbury	Cape W.
Massinga	Inhambane (Massinga)	Sul do Save, Moçambique.
Mastenberg, see Massenberg.		
Mataffin	Nelspruit	Transvaal.
Matatiele	Matatiele	Cape E.
Matjesfontein	Laingsburg	Cape M.
Matolo	Lourenço Marques (Marracuene)	Sul do Save, Moçambique.
Matopo Hills or Matopos	Matopo	S. Rhodesia.
Matucua or Matukua	Huila	Angola.
Mauritzfontein	Kimberley	Cape (Griqualand West).
Maxixe	Inhambane (Inhambane)	Sul do Save, Moçambique.
Mayfern	Nelspruit	Transvaal.
Mayville	Durban	Natal.
Mazelspoort	Bloemfontein	Orange Free State.
Mazoe	Mazoe	S. Rhodesia.
Mbabane	Mbabane	Swaziland.
M'besa, see Mebesa.		
Mebesa Forest	Umtali	S. Rhodesia.
Meintjes Kop	Pretoria	Transvaal.
Melkbosch Strand	Bellville	Cape W.
Melk Rivier (Karroo)	Graaff Reinet	Cape M.
Melmoth	Entonjaneni	Natal (Zululand)
Melsetter	Melsetter	S. Rhodesia.
Memba	Nampula (Memba)	Niassa, Moçambique.
Merensky	Pietersburg	Transvaal.
Merrivale	Lions River	Natal.
Meruru or Miruru	Tete	Manica e Sofala, Moçambique.
Metonia	Nampula (Metonia)	Niassa, Moçambique.
Meyerton	Vereeniging	Transvaal.
Mhalume, ?=Maulama.		
Middelbult	Standerton	Transvaal.

Locality.	*District.*	*Province or Territory.*
Middelburg	Middelburg	Cape M.
Middelburg	Middelburg	Transvaal.
Middelkop	Pretoria	Transvaal.
Middelpos	Calvinia	Cape W.
Mid-Illovo	Camperdown	Natal.
Millwood Forest	Knysna	Cape M.
Misgund	Uniondale	Cape M.
Mnondo	Mrewa	S. Rhodesia.
Moamba	Lourenço Marques	Sul do Save, Moçambique.
Moçambique	Namp ula (Moçambique)	Niassa, Moçambique.
Mocuba	Quelimane	Zambesia, Moçambique.
Modderbee	Benoni	Transvaal.
Modderfontein	Germiston	Transvaal.
Modderfontein	Kimberley	Cape (Griqualand West).
Modderfontein Deep Levels G.M.	Benoni	Transvaal.
Modderrivier	Kimberley	Cape (Griqualand West).
Modderspruit	Zoutpansberg	Transvaal.
Moedig Siding	Carolina	Transvaal.
Mokeetsi	Letaba	Transvaal.
Molteno	Molteno	Cape. E
Mona	Rusapi	S. Rhodesia.
Monino River	Huila	Angola.
Montagu	Montagu	Cape W.
Montagu Pass	George	Cape M.
Mont aux Sources	Bergville	Natal.
Moodie's Estates	Barberton	Transvaal.
Mooibank	Potchefstroom	Transvaal.
Mooiplaats, Hatherley	Pretoria	Transvaal.
Mooi River	Estcourt	Natal.
Moorddrift	Potgietersrust	Transvaal.
Moorreesburg	Malmesbury	Cape W.
Morgenzon	Ermelo	Transvaal.
Morro de Lopollo	Huila	Angola.
Morrumbene	Inhambane (Morrumbene)	Sul do Save ,Moçambique.
Mosdene, Naboomspruit	Waterberg	Transvaal.
Mossamedes	Mossamedes	Angola.
Mossel Bay	Mossel Bay	Cape M.
Mossel Rivier	Caledon	Cape W.
Mountain Drive, Grahamstown	Albany	Cape E.
Mountain Rise	Pietermaritzburg	Natal.
Mountain View, Hercules	Pretoria	Transvaal.
Mount Edgecombe	Inanda	Natal.
Mount Frere	Mount Frere	Cape E.
Mount Hopley, Upper Zwartkei	Queenstown	Cape E.
Mt. Kanduliri, Zambesi Region	? Tete	Moçambique.
Mt. Mamotsuiri	Letaba	Transvaal.
Mt. Murambala	Quelimane (Massingere)	Zambezia, Moçambique.
Mt. Nhasinde ?=Mt. Nhansito.		
Mt. Nhansito	Tete	Manica e Sofala, Moçambique.
Mt. Nuza	Umtali	S. Rhodesia.
Mount Pleasant	Salisbury	S. Rhodesia.
Mt. Silinda	Melsetter	S. Rhodesia.
Mowbray	Wynberg	Cape W.
Mposa	Lower Umfolosi	Natal (Zululand).
Mqanduli	Mqanduli	Cape E.
Mqatsheni	Polela	Natal.
M'Sasa	Salisbury	S. Rhodesia.
M'sikaba River	Lusikisiki	Cape E.
M'Soneddi	Mazoe	S. Rhodesia.
Mtambanana	Lower Umfolosi	Natal (Zululand).
Mtao	Umvuma	S. Rhodesia.
Mtepetepa	Mazoe	S. Rhodesia.
Mtunzini	Mtunzini	Natal (Zululand).
Mualama	Quelimane (Pebana)	Zambezia, Moçambique.
Mucklenberg, Zebediela	Potgietersrust	Transvaal.

Locality.	*District.*	*Province or Territory.*
Muckeneuk, Pretoria	Pretoria	Transvaal.
Muden	Weenen	Transvaal.
Mufulira	(Copper Area)	N. Rhodesia.
Muguene	Lourenço Marques (Maputo)	Sul do Save, Moçambique.
Muizenberg	Simonstown	Cape W.
Mulders Drift	Krugersdorp	Transvaal.
Mulders Vlei	Stellenbosch	Cape.
Mungari	Tete	Manhica e Sofala, Moçambique.
Murraysburg	Murraysburg	Cape M.
Muwe	Namaqualand	Cape W.
Naboomfontein	Potgietersrust	Transvaal.
Naboomspruit	Waterberg	Transvaal.
Nachtwacht	Bredasdorp	Cape W.
Nahoon	East London	Cape E.
'Naaiboornfontain' (Schlechter), see Naboomfontein.		
Namaacha	Lourenço Marques	Sul do Save, Moçambique.
Namaroup, Khamiesburg	Namaqualand	Cape W.
Nampula	Nampula	Niassa, Moçambique.
Napalanka	Cubango	Angola.
Narubis	Keetmashoop	South West Africa.
Nattevlei	Paarl	Cape W.
Natvoet	Namaqualand	Cape W.
Nautilus Point (Angra Pequena)	Lüderitz	South West Africa.
Ncaga Mt., Luneberg	Paulpietersburg	Natal.
Ndwedwe	Inanda	Natal.
Neethlings Hof	Stellenbosch	Cape W.
Nelspruit	Nelspruit	Transvaal.
Nels River	Nelspruit	Transvaal.
Nelsrust	Pietermaritzburg	Natal.
New Agatha	Letaba	Transvaal.
New Amianthus Asbestos Mine	Nelspruit	Transvaal.
Newcastle	Newcastle	Natal.
New England	Barkly East	Cape E.
New Germany	Pinetown	Natal.
New Guelderland	Lower Tugela	Natal.
New Hanover	New Hanover	Natal.
Newlands	Wynberg	Cape W.
New Modderfontein G.M.	Benoni	Transvaal.
New Modder Mine, see Modderfontein.		
New State Areas G.M.	Springs	Transvaal.
Ngokong	Kalahari	Bechuanaland Protectorate
Ngome Forest	Ngotshe	Natal (Zululand).
Ngoya Forest	Mtunzini	Natal (Zululand).
Nhula	Quelimane	Zambezia, Moçambique.
Nietvoorby	Stellenbosch	Cape W.
Nieuwveld Mts.	Fraserburg–Beaufort West	Cape M.
Nkandhla Forest	Nkandhla	Natal (Zululand).
Nkwalini	Eshowe	Natal (Zululand).
N'karini	Weenen	Natal.
Noetze	Knysna	Cape M.
Nongoma	Nongoma	Natal (Zululand).
Noodsberg	New Hanover	Natal.
Noordhoek	Simonstown	Cape W.
Northdene	Durban	Natal.
Northern Flats	Potgietersrust	Transvaal.
Northern Ravine, Rooiwal	Nelspruit	Transvaal.
Northlands	Johannesburg	Transvaal.
Norton	Hartley	S. Rhodesia.
Norwood	Johannesburg	Transvaal.
Notensele Forest, see Notinsila.		
Notinsila Forest	Ngqueleni	Cape E.
Notocote	Quelimane	Zambezia, Mocambique.
Nottingham Road	Estcourt	Natal.

Locality.	*District.*	*Province or Territory.*
Nourse Gold Mine	Johannesburg	Transvaal.
Nqadu Forest	Tsolo	Cape E.
Nqadu Heights	Tsolo	Cape E.
Nqutu	Nqutu	Natal (Zululand).
Ntambanana	Lower Umfolosi	Natal (Zululand).
Ntywenka	Tsolo	Cape E.
Nutfield	Waterberg	Transvaal.
Nuwe Rus	Namaqualand	Cape W.
Nyamandhlovu	Bulawayo	S. Rhodesia.
Obib	Lüderitz	South West Africa.
Odzani River	Umtali	S. Rhodesia.
Odzi	Makoni	S. Rhodesia.
Ofcalaco	Letaba	Transvaal.
Okahandja	Okahandja	South West Africa.
Okaharui	Okahandja	South West Africa.
Okapuka	Windhoek	South West Africa.
Old Lead Mine, Rhenosterhoek	Middelburg	Transvaal.
Olifantsfontein	Pretoria	Transvaal.
Olifantshoek, nr. Alexandria	Alexandria	Cape E.
Olifants Hoek	Kuruman	Cape (Griqualand West).
Olifants Hoek	Uitenhage	Cape E.
Olifantsrivier (Schlechter)	Van Rhynsdorp–Clanwilliam	Cape W.
Olifantsrivier	Witbank	Transvaal.
Olifantsrivier Camp	Pilgrims Rest	Transvaal.
Oliviers Hoek	Bergville	Natal.
Olukonda	Ovamboland Reserve	South West Africa.
Olyfhoutkloof nr. Enon	Uitenhage	Cape M.
Omaruru	Omaruru	South West Africa.
Ombale	Ovamboland Reserve	Sotuh West Africa.
' Omblas ' (Drège), see Umlaas River, lower reaches.		
'Omsamculo ' (Drège), see Umzimkulu River, lower reaches.		
' Omsamwubo ' (Drège), see Umzimvubu River, lower reaches.		
' Omtata ' (Drège), see Umtata River, lower reaches.		
' Omtendo ' (Drége), see Umtentu River, lower reaches.		
Onderstepoort	Pretoria	Transvaal.
Ondongwa	Ovamboland Reserve	South West Africa.
Onolonga	Ovamboland Reserve	South West Africa.
Onrust	Caledon	Cape W.
Oogies	Witbank	Transvaal.
Oorlogsfontein	Potgietersrust	Transvaal.
Oppaslaagte	Lichtenberg	Transvaal.
Orange River (Station)	Hopetown	Cape M.
Oranjeville	Heilbron	Orange Free State.
Oranjezicht	Cape	Cape W.
Orchard Siding	Worcester	Cape W.
Oribi Flats	Port Shepatone	Natal.
Oribi Gorge	Port Shepstone	Natal.
Otavi	Grootfontein	South West Africa.
Otjihavera	Windhoek	South West Africa.
Otjikuara ?=Otjihavera		
Otto's Bluff	Pietermaritzburg	Natal.
Oudehouts Kloof	Volksrust	Transvaal.
Oudtshoorn	Oudtshoorn	Cape M.
Outeniqua Mts	George	Cape M.
Outjo	Outjo	South West Africa.
Paardeplaats	Lydenburg	Transvaal.
Paarl	Paarl	Cape W.
Paarlberg	Paarl	Cape W.
Paddock	Port Shepstone	Natal.
Palmaryville	Zoutpansberg	Transvaal.
Palm Kloof (Victoria Falls)	Wankie	S. Rhodesia.
Pan	Middelburg	Transvaal.

Locality.	*District.*	*Province or Territory.*
Pao	Mossamedes	Angola.
Papegaaisberg	Stellenbosch	Cape W.
Park Rynie	Umzinto	Natal.
Pas River	Mossamedes	Angola.
Patentie	Humansdorp	Cape M.
Paulsberg	Simonstown	Cape W.
Pelindaba	Pretoria	Transvaal.
Penhalonga	Umtali	S. Rhodesia.
Pepworth	Klip River	Natal.
Parktown	Johannesburg	Transvaal.
Parys	Vredefort	Orange Free State.
Perde Eiland	Kenhardt	Cape W.
Perseverance	Uitenhage	Cape M.
Petrus Brandt	Knysna	Cape M.
Philadelphia	Bellville	Cape W.
Phoenix	Inanda	Natal.
Pienaarsfontein	Barkly West	Cape (Griqualand West).
Pienaars Poort	Pretoria	Transvaal.
Pienaars River	Pretoria	Transvaal.
Piesanghoek	Zoutpansberg	Transvaal.
Pietermaritzburg	Pietermaritzburg	Natal.
Pietersburg	Pietersburg	Transvaal.
Piet Retief	Piet Retief	Transvaal.
Pilgrims Rest	Pilgrims Rest	Transvaal.
Pillansberg	Rustenburg	Transvaal.
Pinelands	Wynberg	Cape W.
Pinetown	Pinetown	Natal.
Piquetberg	Piquetberg	Cape W.
Pirie Forest	Kingwilliamstown	Cape E.
Planknek	Waterberg	Transvaal.
Plaston	Nelspruit	Transvaal.
Platbus	Riversdale	Cape M.
Platrand	Standerton	Transvaal.
Platrivier	Pretoria	Transvaal.
Plettenberg Bay	Knysna	Cape M.
Pniel	Paarl	Cape W.
Polana	Lourenço Marques	Sul do Save, Moçambique.
Politsi	Letaba	Transvaal.
Pomangula	Mossamedes	Angola.
Pongola	Piet Retief	Transvaal.
Ponta do Ouro	Lourenço Marques (Maputo)	Sul do Save, Moçambique.
Pooles Bay, Hermanus	Caledon	Cape W.
Port Alfred	Bathurst	Cape E.
Port Durnford	Mtunzini	Natal (Zululand).
Port Elizabeth	Port Elizabeth	Cape M.
Porterville	Tulbagh	Cape W.
Portland	Knysna	Cape W.
Port Natal, see Durban.		
Porto Pinda	Mossamedes	Angola.
Port St. Johns	Port St. Johns	Cape E (Pondo land).
Port Shepstone	Port Shepstone	Natal.
Possession Is	Swakopmund	South West Africa.
Postmasberg	Hay	Cape (Griqualand West).
Potchefstroom	Potchefstroom	Transvaal.
Potgietersrust	Potgietersrust	Transvaal.
Powers Court	Umlazi	Natal.
Premier Mine	Pretoria	Transvaal.
Pretoria	Pretoria	Transvaal.
Pretoria North	Pretoria North	Transvaal.
Pretorius Kop	Nelspruit	Transvaal.
Princess Mine, Roodepoort	Krugersdorp	Transvaal.
Prieska	Prieska	Cape M.
Prinshof	Pretoria	Transvaal.
Prospect	Komgha	Cape E.
Pungwana Forest	Port St. Johns	Cape (Pondoland).
Puff Adder	Flagstaff	Cape E.

Locality.	*District.*	*Province or Territory.*
Putfontein	Benoni	Transvaal.
Pyramids	Pretoria	Transvaal.
Qolora	Kentani	Cape E.
Qudeni Forest	Nkandhla	Natal (Zululand).
Que Que	Gwelo	S. Rhodesia.
Queenstown	Queenstown	Cape E.
Quelimane	Quelimane	Zambezia, Moçambique.
Quiriri River	Cubango	Angola.
Qumbu	Qumbu	Cape E.
Radium	Waterberg	Transvaal.
Randfontein	Krugersdorp	Transvaal.
Rapenburg, Cape Flats	Wynberg	Cape W.
Randfontein Estates	Krugersdorp	Transvaal.
Ravenshill	Zoutpansberg	Transvaal.
Redan	Vereeniging	Transvaal.
Retreat	Wynberg	Cape W.
Reunion	Umlazi	Natal.
Rhebok Kop	Fouriesberg	Orange Free State.
Rhebok Kop	Fouriesberg	Orange Free State.
Rhenosterbos	Marico	Transvaal.
Rhenosterhoek (Old Lead Mine)	Marico	Transvaal.
Rhenosterfontein	Marico	Transvaal.
Ribaue	Nampula (Ribaue)	Niassa, Mocambique.
Ricatla	Lourenço Marques (Marracuene)	Sul do Save, Moçambique.
Richards Bay	Lower Umfolosi	Natal (Zululand).
Richmond	Richmond	Natal.
Riebeek West	Malmesbury	Cape W.
Rietfontein	Pretoria	Transvaal.
Rietvlei	Elliot	Cape E.
Rietvlei	Aliwal North	Cape E.
Rietvlei	Pretoria	Transvaal.
Rietvlei	Umvoti	Natal.
Rikatli, see Ricatla.		
Rio Giraul	Mossamedes	Angola.
Ripplemead, Dohne	Stutterheim	Cape E.
Riversdale	Riversdale	Cape M.
Riversdale	Mazoe	S. Rhodesia.
Riverton	Kimberley	Cape (Griqualand West).
Riverview Mine	Hlabisa	Natal (Zululand).
Riviersonderend	Caledon	Cape W.
Rivulets	Nelspruit	Transvaal.
Roberts Heights	Pretoria	Transvaal.
Robertson	Robertson	Cape W.
Robinson Deep G.M.	Johannesburg	Transvaal.
Rockcliff, nr. Sidbury	Albany	Cape E.
Roggeveld	Sutherland	Cape W.
Rondebosch	Wynberg	Cape.
Rondeboschje	Potgietersrust	Transvaal.
Roodekop	Germiston	Transvaal.
Roodekuil Estate, Warmbaths	Waterberg	Transvaal.
Roodepoort	Krugersdorp	Transvaal.
Rooidam	Calvinia	Cape W.
Rooikoppies, Duivelskloof	Letaba	Transvaal.
Rooiwal	Nelspruit	Transvaal.
Rosebank	Wynberg	Cape W.
Rose Deep Mine	Germiston	Transvaal.
Rosehaugh	Barberton	Transvaal.
Rosendal	Ficksburg	Orange Free State.
Rosetta	Estcourt	Natal.
Rosettenville	Johannesburg	Transvaal.
Rosmead	Middelburg	Cape M.
Rössing	Swakopmund	South West Africa.

Locality.	*District.*	*Province or Territory.*
Rosslyn	Pretoria	Transvaal.
Rouxville	Rouxville	Orange Free State.
Rua River	Mazoe	S. Rhodesia.
Rubbervale	Letaba	Transvaal.
Rumbwa (?=Rumbavu)	nr. Chobe Swamp	Bechuanaland Protectorate
Rusapi	Rusapi	S. Rhodesia.
Rust der Winter	Pretoria	Transvaal.
Rustenburg	Rustenburg	Transvaal.
Ruytersbosch	Mossel Bay	Cape M.
Saaihoek	Bethlehem	Orange Free State.
Sabie	Pilgrims Rest	Transvaal.
Saco	Mossamedes	Angola.
Saddleback	Barbeton	Transvaal.
Sakkemecho	Cubango	Angola.
St. James	Simonstown	Cape W.
St. Lucia Bay	Hlabisa	Natal (Zululand).
St. Lucia Lake	Hlabisa	Natal (Zululand).
Saldanha Bay	Malmesbury	Cape W.
Salisbury	Salisbury	S. Rhodesia.
Salisbury Is.	Durban	Natal.
Saltpan, Loius Trichardt	Zoutpansberg	Transvaal.
Saltpan	Pretoria	Transvaal.
Samteesvlakte	Uitenhage	Cape M.
Sandbaken, nr Val	Standerton	Transvaal.
Sanddrift, nr. Brits	Brits	Transvaal.
Sandflats	Alexandria	Cape E.
Sandown	Johannesburg	Transvaal.
Sandown Bay	Caledon	Cape W.
Sand River	Pilgrims Rest	Transvaal.
Sannahspos	Bloemfontein	Orange Free State.
Sao Paulo de Messano	Lourenço Marques (Bilene)	Sul do Save, Moçambique.
Sarnia	Pinetown	Natal.
Schagen	Nelspruit	Transvaal.
Schoemansrust	? Brits	Transvaal.
Schoenberg, north of Hluhluwe ?	? Nongoma	Natal, Zululand.
Schoonord, Sekukuniland	Lydenburg	Transvaal.
Schoonuitzicht	Zoutpansberg	Transvaal.
Schroeders	New Hanover	Natal.
Schurinks Kloof	Lydenburg	Transvaal.
Schwarzwald Forest	Victoria East	Cape E.
Scottburgh	Umzinto	Natal.
Sea Point	Cape	Cape W.
Sea View	Durban	Natal.
Sebalabala	Berea	Basutoland.
Sekukuni	Lydenburg	Transvaal.
Selati River	Letaba	Transvaal.
Selukwe	Selukwe	S. Rhodesia.
Sena	Beira (Sena)	Manica e Sofala, Moçambique.
Sendelingsdrift or Sendlingsdrift	Lüderitz	South West Africa.
Serra de Cazimba	Mossamedes	Angola.
Serra de Lopollo	Huila	Angola.
Serra de Montes Negros	Mossamedes	Angola.
Serra da Xella	Huila	Angola.
Settlers	Waterberg	Transvaal.
Sevenfontein	Swellendam	Cape W.
Sevenfountains	Albany	Cape E.
Sevenoaks	Umvoti	Natal.
Seymour	Stockenstroom	Cape E.
Shamva	Mazoe	S. Rhodesia.
Shangani	Insiza	S. Rhodesia.
Shire Highlands	Southern Province	Nyasaland.
Sibasa	Zoutpansberg	Transvaal.
Sidbury	Albany	Cape E.
Signal Hill	Cape	Cape W.

Silikats Nek, see Zilikaats Nek.

Locality.	*District.*	*Province or Territory.*
Silutshana	Nqutu	Natal (Zululand).
Silvermine Valley	Simonstown	Cape W.
Silverton	Pretoria	Transvaal.
Simmer and Jack Mines	Germiston	Transvaal.
Simondium	Paarl	Cape W.
Simons Berg	Stellenbosch	Cape.
Simonstown	Simonstown	Cape W.
Singisi	Mt. Currie	Cape E (Griqualand East).
Sinoia	Lomagundi	S. Rhodesia.
Sir Lowry Pass	Somerset West	Cape W.
Six Mile Spruit	Pretoria	Transvaal.
Scheerpoort	Brits	Transvaal.
Skinners Court	Pretoria	Transvaal.
Slanghoeks Mts.	Worcester	Cape W.
Smithfield	Smithfield	Orange Free State.
Smitskraal	Boshoff	Orange Free State.
Smitwinkel	Simonstown	Cape W.
Sobi	Cubango	Angola.
Solheim Mission Station	Eshoew	Natal, (Zululand).
Somabula	Gwelo	S. Rhodesia.
Somerset East	Somerset East	Cape M.
Somerset Strand	Somerset West	Cape W.
Somerset West	Somerset West	Cape W.
Sonderwater	Pretoria	Transvaal.
South African Lands & Exploration Co. G.M.	Brakpan	Transvaal.
Spion Kop	Klip River	Natal.
Spitzkop, Cape	Barkly West	Cape (Griqualand West).
Spitzkop	Pilgrims Rest	Transvaal.
Spitzkop, nr. Table Mt.	Pietermaritzburg	Natal.
Springbok	Namaqualand	Cape W.
Springbok Flats	Waterberg	Transvaal.
Springfield	Durban	Natal.
Springs Mines	Springs	Transvaal.
Stamford Hill	Durban	Natal.
Standerton	Standerton	Transvaal.
Stanger	Lower Tugela	Natal.
Stapleford (Forest Reserve)	Inyanga	S. Rhodesia.
Steenberg	Wynberg	Cape W.
Steenbokfontein	Rustenburg	Transvaal.
Steenbras Rivier	Somerset West	Cape W.
Stegi	Ubombo	Swaziland.
Steinkopf	Namaqualand	Cape W. . .
Stella Bush	Durban	Natal.
Stellenbosch	Stellenbosch	Cape W.
Sterkfontein	Herschel	Cape E.
Sterkstroom	Sterkstroom	Cape E.
Sterkwater	Pretoria	Transvaal.
Steynsburg	Steynsburg	Cape E.
Steynsdorp	Carolina	Transvaal.
Stikland	Belville	Cape W.
Stilbaai, see Still Bay.		
Still Bay	Riversdale	Cape M.
Stinkwater	Pretoria	Transvaal.
Stones Hill	Albany	Cape E.
Storms River	Humansdorp	Cape M.
Storms Vlei	Swellendam	Cape W.
Strowan, Grahamstown	Albany	Cape E.
Strubens Valley, Roodepoort	Krugersdorp	Transvaal.
Stutterheim	Stutterheim	Cape E.
Sub-Nigel G.M.	Heidelberg	Transvaal.
Sunday Falls, nr. Mont-aux-Sources	Bergville	Natal.
Sundays River	Uitenhage	Cape M.
Suurbraak	Swellendam	Cape W.
Suurberg, see Zuurberg.		
Sydenham	Port Elizabeth	Cape M.

Locality.	*District.*	*Province or Territory.*
Swakop	Swakopmund	South West Africa.
Swakopmund	Swakopmund	South West Africa.
Swallowfields	Salisbury	S. Rhodesia.
Swanepoelsrust	Waterberg	Transvaal.
Swartberg	Swellendam	Cape W.
Swartkop River	Omaruru–Okahandja	South West Africa.
Swartkoppies	Pretoria	Transvaal.
Sweetwaters	Pietermaritzburg	Natal.
Swellendam	Swellendam	Cape W.
Swinburne	Harrismith	Orange Free State.
Swing Bridge	Pretoria	Transvaal.
Syringa	Bubalina	S. Rhodesia.
Sycamore	Belfast	Transvaal.
Sydenham	Durban	Natal.
Taaiboschkranz, nr. Rhenoster River	Heilbron	Orange Free State.
Taaibos Spruit	Potchefstroom	Transvaal.
Tabamhlope	Estcourt	Natal.
Tabankulu	Tabankulu	Cape E. (Pondoland)
Table Mountain	Cape	Cape W.
Table Mt., Natal	Pietermaritzburg–Camperdown	Natal.
Tafelberg	Middelburg	Cape M.
Takoon		Bechuanaland Protectorate
Tamboers Kloof	Cape	Cape W.
Tandaai Pass	Melsetter	S. Rhodesia.
Tarkastad	Tarka	Cape E.
Tarlton	Krugersdorp	Transvaal.
Taungs	Taungs	Cape (Griqualand West).
Taylerville	Mount Currie	Cape E. (Griqualand East).
Tayside	Dundee	Natal.
Tenadu	?	Cape E (Tembuland).
Tebetabeng	Berea	Basutoland.
Tehututu	Kalahari	Bechuanaland Protectorate
Tendenko Forest		Cape E.
Teyateyaneng	Berea	Basutoland.
Thabazimbi	Rustenburg	Transvaal.
The Aloes, Kirstenbosch	Wynberg	Cape W.
The Downs	Letaba	Transvaal.
The Hanging Shaw	Rustenburg	Transvaal.
The Heads	Knysna	Cape M.
The Look Out, Bushmans River	Albany	Cape E.
The Thorns	Pretoria	Transvaal.
The Wilderness	George	Cape M.
The Willows	Pretoria	Transvaal.
Theydon	Marandellas	S. Rhodesia.
Thornville	Camperdown	Natal.
Tidbury's Toll	Stockenstroom	Cape E.
Toise River	Stutterheim	Cape E.
Tokai	Wynberg	Cape W.
Tonetti	Barberton	Transvaal.
Tontelboskolk	Calvinia	Cape W.
Toowoomba, Warmbaths	Waterberg	Transvaal.
Town Bush	Pietermaritzburg	Natal.
Town Bush Valley	Pietermaritzburg	Natal.
Tradouw Pass	Swellendam	Cape W.
Trappes Valley	Bathurst	Cape E.
Trelawney	Lomagundi	S. Rhodesia.
Triangle	? Montagu	Cape W.
Trigaartspoort	Pretoria	Transvaal.
Trompetterspoort	Willowmore	Cape M.
Tshakoma	Zoutpansberg	Transvaal.
Tshokwane, Kruger Nat. Park	Pilgrims Rest	Transvaal.
Tugela	Lower Tugela	Natal.
Tugela Valley, near Goodoo	Bergville	Natal.
Tugela Valley, near Mont aux Sources	Bergville	Natal.

Locality.	*District.*	*Province or Territory.*
Tuinplaats	Waterberg	Transvaal.
Tuin van Eden, see Garden of Eden.		
Tulbagh	Tulbagh	Cape W.
Tumlini Hill, nr. Mt. Mlanje	Quelimane (Milange)	Zambezia, Moçambique.
Turffontein	Johannesburg	Transvaal.
Tweedie	Lions River	Natal.
Twee Rivier	Uniondale	Cape M.
Tweespruit	Ladybrand	Orange Free State.
Tygerberg	Cape	Cape W.
Tyititi Forest ,nr. Keiskamamhoek	Kingwilliamstown	Cape E.
Tzaneen	Letaba	Transvaal.
Ubombo	Ubombo	Natal (Zululand).
Ugie	Maclear	Cape E.
Uitenhage	Uitenhage	Cape E.
Uitkomst	Na,aqualand	Cape W.
Uitvlugt Plantations	Wynberg	Cape W.
Ukasini Estates	Weenen	Natal.
Ukualaukalti	? Ovamboland Reserve	South West Africa.
Umbelusi or Umbeluzi	Lourenço Marques (Marracuene)	Sul do Save, Mocambique.
Umbilo	Durban	Natal.
Umbogintwini	Durban	Natal.
Umbovana	?	Natal (Zululand).
Umfolosi	Lower Umfolosi	Natal (Zululand).
Umgeni	Durban	Natal.
Umgeni Beach	Durban	Natal.
Umgeni Lagoon	Durban	Natal.
Umhlali	Lower Tugela	Natal.
Umhlanga River	Inanda	Natal.
Umhlanga Rocks	Inanda	Natal.
Umhlatuzi	Mtunzini	Natal (Zululand).
Umkomas	Umzinto	Natal.
Umlaas River, lower reaches	Umlazi–Durban	Natal.
Umpala	Lourenço Marques (Maputo)	Sul do Save, Moçambique.
Umpumulo Hills	Fort Beufort	Cape E.
Umsindusi River	Pietermaritzburg	Natal.
Umsineni R.	Hlabisa	Natal (Zululand).
Umtali	Umtali	S. Rhodesia
Umtata	Umtata	Cape E. (Pondoland)
Umtata River, lower reaches	Mqanduli–Ngqeline	Cape E.
Umtentu River, lower reaches	Lusikisiki	Cape E (Pondoland).
Umtentweni	Port Shepstone	Natal.
Umtwalumi	Umzinto	Natal.
Umvukwe	Lomagundi	S. Rhodesia.
Umwindsi River	Salisbury	S. Rhodesia.
Umzimkulu	Umzinkulu	Cape E (Griqualand East).
Umzimkulu River, lower reaches	Port Shepstone	Natal.
Umzimvubu R., lower reaches	Port St. Johns–Lusikisiki	Cape E. (Pondoland).
Umzindeni R. see Umsineni R.		
Umzinto	Umzinto	Natal.
Umzinyati	Inanda	Natal.
Uniondale	Uniondale	Cape M.
Upington	Gordonia	Cape (Griqualand West).
Upper Baviaans River	Bedford	Cape E.
Upper Tongaat	Lower Tugela	Natal.
Upper Zwartkei	Queenstown–Tarka	Cape E.
Utrecht	Utrecht	Natal.
Uwanetsi River	Lourenço Marques (Magudi)	Sul do Save, Moçambique.
Vaalbank	Wakkerstroom	Transvaal.
Vaalkrants	Fauresmith	Orange Free State.
Vaal water	Waterberg	Tran vaal.
Val	Standerton	Tran vaal.
Valencia	Letaba	Tran vaal.

Locality.	*District.*	*Province or Territory.*
Van Reenen	Klip River	Natal.
Van Reenens Pass	Klip River	Natal.
Van Rhyn dorp	Van Rhyn dorp	Cape W.
Van Rhyns Pass	Van Rhynsdorp	Cape W.
Van Ryn Deep G.M.	Benoni	Transvaal.
Van Schoors Drift	Malmesbury	Cape W.
Van Stadens Berg	Uitenhage	Cape E.
Van Stadens Pass	Uitenhage	Cape E.
Van Wyksfontein	Barkly West	Cape (Griqualand West).
Varkensvlei	? Wynberg	Cape W.
Ventersburg	Ventersburg	Orange Free State.
Ventersdorp	Ventersdorp	Transvaal.
Venterspost G.M.	Krugersdorp	Transvaal.
Vereeniging	Vereeniging	Transvaal.
Verulam	Inanda	Natal.
Victoria Falls	Wankie	S. Rhodesia.
Vila Nova de Gaza	Lourenço Marques (Gaza)	Sul do Save, Moçambique.
Viljoensdorp	Caledon	Cape W.
Viljoens Pass	Caledon	Cape W.
Villiersdorp	Robertson	Cape W.
Vischgat or Visgat	Waterberg	Transvaal.
Vissers Hoek	Pretoria	Transvaal.
Vlaeberg	Stellenbosch	Cape W.
Vlakdrift	Krugersdorp	Transvaal.
Vlakfontein	Wolmaranstad	Transvaal.
Vlottenberg	Stellenbosch	Cape W.
Vogelgat (Schlechter)	? Caledon	Cape W.
Vogelsfontein G. M.	Springs	Transvaal.
Volksrust	Volksrust	Transvaal.
Vosmansbeacon	Ermelo	Transvaal.
Vredefort	Vredefort	Orange Free State.
Vryburg	Vryburg	Cape (Griqualand West).
Vryheid	Vryheid	Natal.
Vumba Mts.	Umtali	S. Rhodesia.
Waaikraal	Springs	Transvaal.
Wagenspadsnek, see Wapadsnek.		
Wakkerstroom	Wakkerstroom	Transvaal.
Walmer	Port Elizabeth	Cape M.
Wankie	Wankie	S. Rhodesia.
Wapadsnek	Pretoria	Transvaal.
Wargundy Orchards	Ladybrand	Orange Free State.
Warmbaths	Waterberg	Transvaal.
Warm Bokkeveld	Ceres	Cape W.
Warner Beach	Durban	Natal.
Wasserberg, nr. Windhoek	Windhoek	South West Africa.
Waterberg	Waterberg	Transvaal.
Waterberg	Windhoek	South West Africa.
Waterfall Estate nr. Sabi	Pilgrims Rest	Transvaal.
Waterfall	Knysna	Cape M.
Waterkloof	Pretoria	Transvaal.
Waterkloof	Rustenburg	Transvaal.
Waterval	Rustenburg	Transvaal.
Waterval Boven	Belfast	Transvaal.
Waterval Onder	Belfast	Transvaal.
Weenen	Weenen	Natal.
Welgelegen	Vryburg	Cape (Griqualand West).
Welgevonden	Brits	Transvaal.
Wellesley	Lomagundi	S. Rhodesia.
Wellington	Wellington	Cape W.
Welverdiend	Potchefstroom	Transvaal.
Welwitsch	Swakopmund	South West Africa.
Wemmershoek	Paarl	Cape W.
Wepener	Wepener	Orange Free State.
Wesselbron	Hoopstad	Orange Free State.

Locality.	*District.*	*Province or Territory.*
Wesselsnek	Klip River	Natal.
Wesselton Diamond Mine	Kimberley	Cape (Griqualand West).
Western Reefs G.M.	Krugersdorp	Transvaal.
Westfalia	Letaba	Transvaal.
Westminster	Ladybrand	Orange Free State.
West Springs G.M.	Springs	Transvaal.
West Wood, Haenertsburg	Pietersburg	Transvaal.
Wharncliffe	East London	Cape E.
White River	Barberton	Transvaal.
White Heather Mine	Pietersburg	Transvaal.
Williston	Williston	Cape W.
Willowvale	Willowvale	Cape E.
Willowmore	Willowmore	Cape M.
Winburg	Winburg	Orange Free State.
Windhoek	Windhoek	South West Africa.
Windy Hill Estate	Pietermaritzburg	Natal.
Windsorton	Barkly West	Cape (Griqualand West).
Winkle Spruit	Durban	Natal.
Winterhoekberg	Uitenhage	Cape E.
Winterhoek Mts., see Winterhoekberg.		
Winters Kloof	Pietermaritzburg	Natal.
Witbank	Witbank	Transvaal.
Witberg or Wittebergen	Herschel	Cape E.
Witfontein	George	Cape M.
Witklip	Port Elizabeth	Cape M.
Witpoort	Middelburg	Transvaal.
Witpoortberg	Willowmore	Cape M.
Witpoortje	Krugersdorp	Transvaal.
Witsand or Witzand	Wynberg	Cape W.
Witte Rivier	Uitenhage	Cape E.
Wolfridge	Kingwilliamstown	Cape E.
Wolhunterskop	Rustenburg	Transvaal.
Wolseley	Tulbagh	Cape W.
Wolwekloof	Pretoria	Transvaal.
Wonderboom	Pretoria	Transvaal.
Wonderboom Poort	Pretoria	Transvaal.
Wonderfontein	Belfast	Transvaal.
Woodbourne	Knysna	Cape M.
Woodbury	Alexandria	Cape E.
Woodbush	Pietersburg	Transvaal.
Woodstock	Cape	Cape W.
Woodville Forest	George	Cape M.
Woolridge	Peddie	Cape E.
Worcester	Worcester	Cape W.
Worlds View, Van Reenens Pass	Klip River	Natal.
Wyebank	Pinetown	Natal.
Wynberg	Wynberg	Cape W.
Xalasi	Lourenço Marques (Maputo)	Sul do Save, Moçambique.
Xinavane	Lourenço Marques (Magude)	Sul do Save, Moçambique.
Xumeni Forest	Polela	Natal.
York	New Hanover	Natal.
Zandfontein	Pretoria	Transvaal.
Zandspruit	Wakkerstroom	Transvaal.
Zandvlakte	Willowmore	Cape M.
Zavala	Lourenço Marques (Zavala)	Sul do Save, Moçambique.
Zebediela	Potgietersrust	Transvaal.
Zeerust	Marico	Transvaal.
Zenega	Salisbury	S. Rhodesia.
Zilikaats Nek	Brits	Transvaal.
Zilverfontein	Namaqualand	Cape W.

Locality.	*District.*	*Province or Territory.*
Zimbabwe	Victoria	S. Rhodesia.
Zimbiti or Mezimbiti Forest	Lourenço Marques	Sul do Save, Moçambique.
Zinca Forest	Mount Frere	Cape E.
Zomba	Southern Province	Nyasaland.
Zona River	Melsetter	S. Rhodesia.
Zumbo	Tete (Zumbo)	Manica e Solfaa, Moçambique.
Zuurberg or Zuurebergen	Somerset East	Cape M.
Zuurbraak	Riversdale	Cape M.
Zuurvlakte	Aliwal North	Cape E.
Zwart Brug	George	Cape M.
Zwartdam nr. Saltpan	Pretoria	Transvaal.
Zwartfontein	Vryburg	Cape (Griqualand West).
Zwartklip	Wynberg	Cape W.
Zwartkop nr. Maritzburg	Pietermaritzburg	Natal.
Zwartkops River	Uitenhage–Port Elizabeth	Cape.
Zwartkops	Port Elizabeth	Cape M.
Zwartruggens	Rustenburg	Transvaal.

MAP 1

MAP of SOUTHERN AFRICA showing TERRITORIAL DIVISIONS

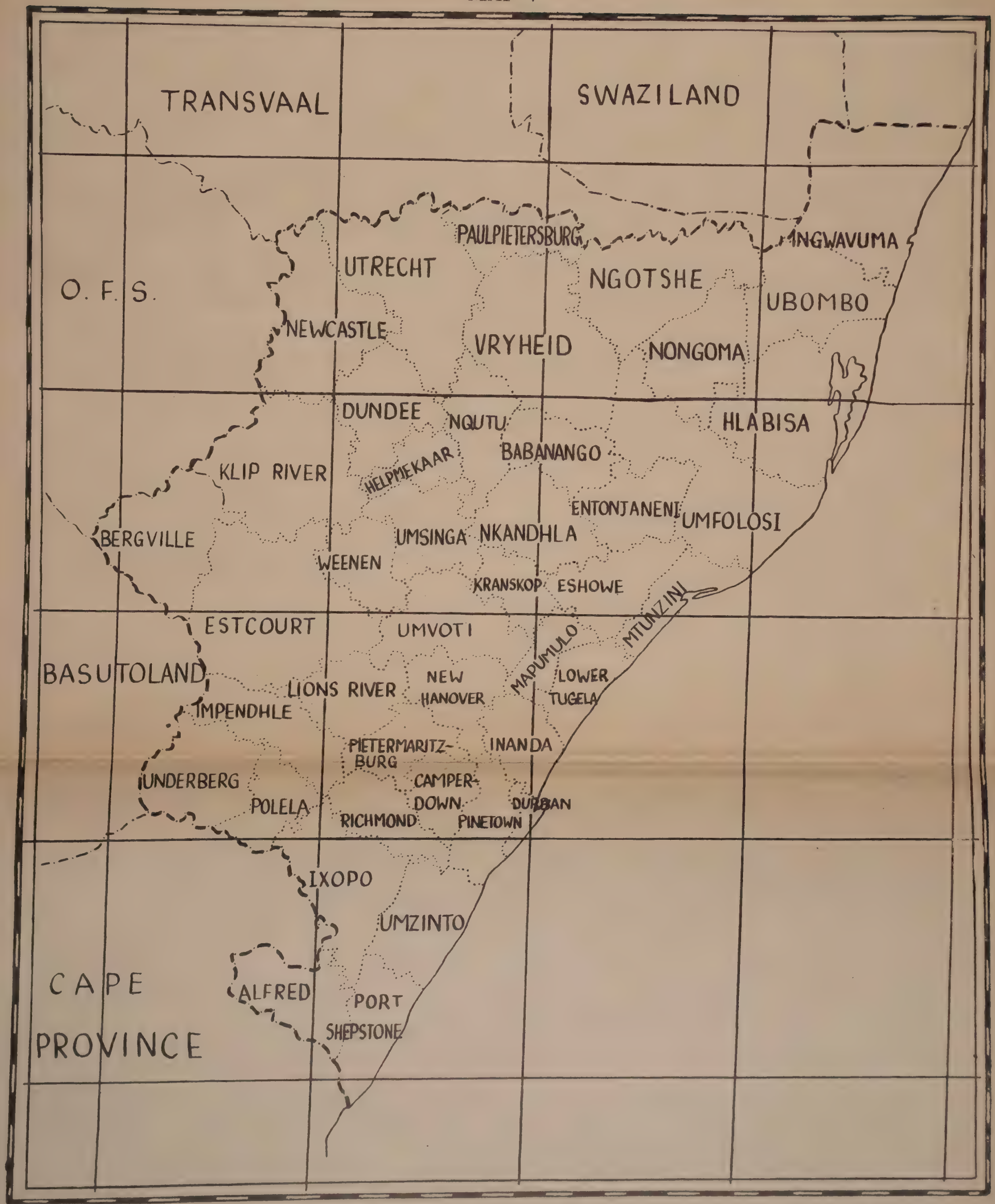
CAPE (WESTERN PROVINCE)

CAPE (MIDLANDS)

MAP IV

CAPE PROVINCE (EAST)

MAP V


TRANSVAAL
SWAZILAND
O. F. S.
PAULPIETERSBURG
INGWAVUMA
UTRECHT
NGOTSHE
UBOMBO
NEWCASTLE
VRYHEID
NONGOMA
DUNDEE
NQUTU
HLABISA
BABANANGO
KLIP RIVER
HELPMEKAAR
ENTONJANENI
UMFOLOSI
BERGVILLE
UMSINGA
NKANDHLA
WEENEN
KRANSKOP
ESHOWE
ESTCOURT
UMVOTI
MTUNZINI
MAPUMULO
BASUTOLAND
LIONS RIVER
NEW HANOVER
LOWER TUGELA
IMPENDHLE
PIETERMARITZ-BURG
INANDA
UNDERBERG
CAMPER-DOWN
POLELA
DURBAN
RICHMOND
PINETOWN
IXOPO
UMZINTO
CAPE PROVINCE
ALFRED
PORT SHEPSTONE

NATAL

MAP VI

BRITISH BECHUANALAND

TRANSVAAL

VREDEFORT

FRANKFORT

HEILBRON

BOTHAVILLE

KROONSTAD

VREDE

REITZ

HOOPSTAD

LINDLEY

VENTERSBURG

HARRISMITH

BETHLEHEM

WINBURG

SENEKAL

BOSHOF

FOURIESBURG

BRANDFORT

FICKSBURG

NATAL

LERIBE

LADYBRAND

JACOBSDAL

BLOEMFONTEIN

THABANCHU

BEREA

QACHAS NEK

MASERU

MAFETENG

FAURESMITH

REDDERS

DEWETSDORP

EDENBURG

BURG

MAFETENG

WEPENAAR

MOHALE'S HOEK

TROMPSBURG

SMITHFIELD

PHILIPPOLIS

ZASTRON

BETHULIE

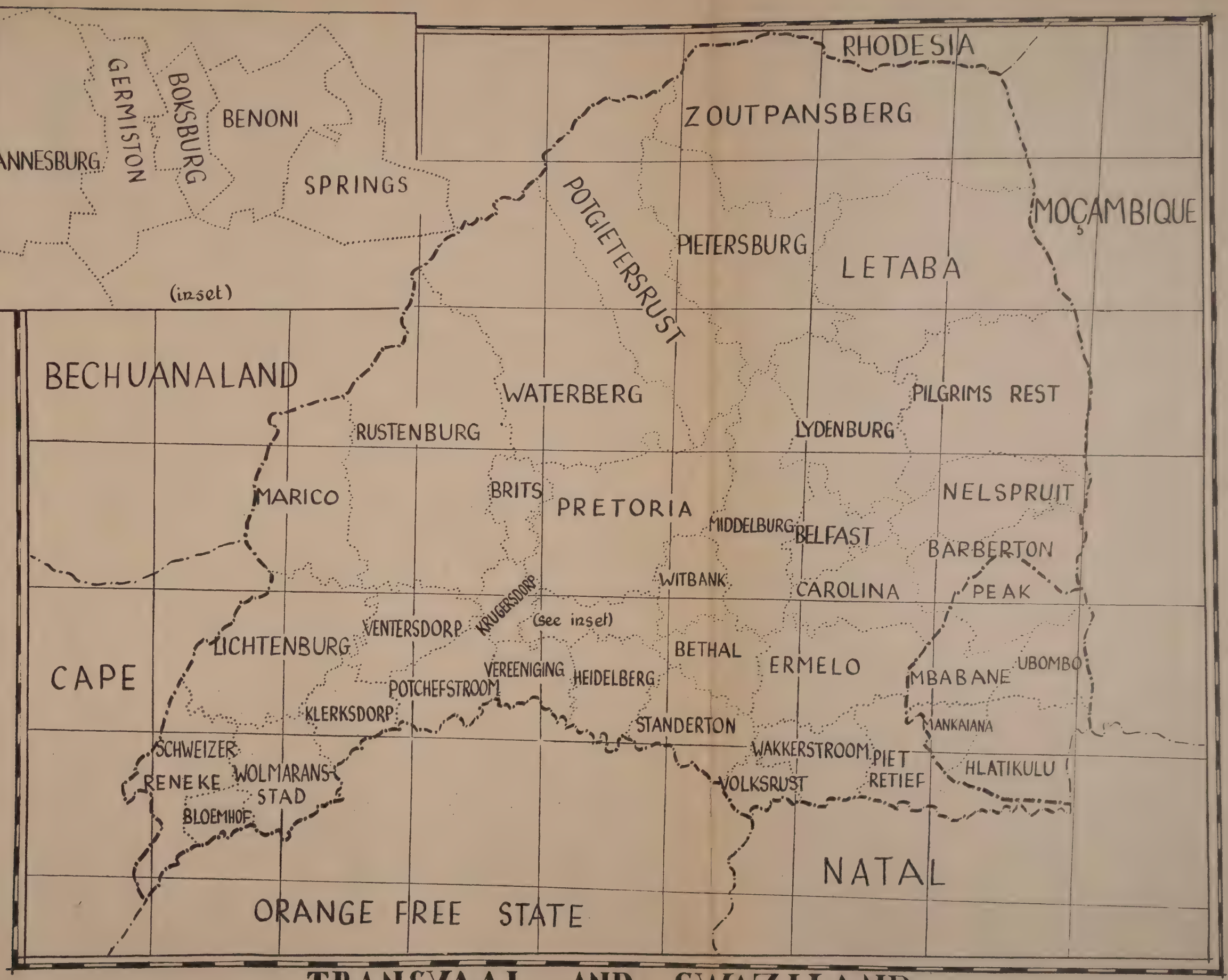
QUTHING

ROUXVILLE

CAPE PROVINCE

ORANGE FREE STATE AND BASUTOLAND

MAP VII



TRANSVAAL AND SWAZILAND

MAP VIII

15 20 25

HUILA

CUBANGO

N. RHODESIA

ANGOLA

← MOSSAMEDES

OVAMBOLAND RESERVE

OUTJO

GROOTFONTEIN

• GROOTFONTEIN

SOUTH WEST AFRICA

20

OUTJO

• OTJIWARONGO

OTJIWARONGO

BECHUANALAND

OMARURU

OMARURU

OKAHANDJA

KARABIB

• OKAHANDJA

KARIBIB

SWAKOP-MUND

SWAKOPMUND

WINDHOEK

WINDHOEK

GOBABIS

GOBABIS

PROTECTORATE

WALVIS BAY

REHOBOTH

REHOBOTH

MALTAHOHE GIBEON

25

MALTAHOHE

GIBEON

MAFEKING

LÜDERITZ

LÜDERITZ

BETHANIE

BETHANIE

KEETMANSHOOP

KEETMANSHOOP

VRYBURG

TVL.

TAUNGS

KURUMAN

GORDONIA

UPPINGTON

WARMBAD

WARMBAD

BARKLY WEST

GRIQUATOWN

KIMBERLEY

O.F.S.

ORANGE RIVER

HAY

HERBERT

CAPE PROVINCE

PRIESKA

30

15 20 25

RHONA BROWN

MAP IX

KAFUE

BAROTSE

NORTHERN RHODESIA

LOMAGUNDI

DARWIN

BATO

MAZOE

MTOKO

SEBUNGWE

SALISBURY

MREWA

INYANGA

HARTLEY

MARANDELLAS

MAKONI

WANKIE

GWELO

CHARTERS

UMTALI

BUBI

CHILI

MANZE

NYAMANDHLOVO

SELUKWE

GUTU

BULAWAYO

INSIZA

VICTORIA

BIKITA

MELSETTER

BULALIMA-MANGWE

MATOBO

BELINGWE

NDANGA

BECHUANALAND

GWANDA

CHIBI

MOÇAMBIQUE

TRANSVAAL

SOUTHERN RHODESIA

MAP X

30
35
40
15
20
25
N. RHODESIA
NYASA-LAND
LAGO
MACONDES
QUISSANGO
PORTO AMELIA
MONTEPUEZ
MARRUPA
METÓNIA
NIASSA
LÚRIO
AMARAMBA
RIBÁUÈ
IMALA
ERÁTI
MEMBA
NAMPULA
MALEMA
NACALA
MACANGA
ANGÓNIA
ZUMBO
MARÁVIA
MOSSURIL
GURÚÈ
NAMPULA
MECONTA
MOÇAMBIQUE
ZAMBEZE R.
NHAMARROI
ALTO MOLÓCUÈ
MOGOVOLAS
MOGINCUAL
MILANGE
TETE
LUGELA
ILE
ZAMBEZIA
ANTÓNIO ENES
MOMA
MUTARARA
MASSINGIRE
MAGANJA
PEBANE
BOROR
DA COSTA
QUELIMANE
S. RHODESIA
CHEMBA
ZAMBEZE
BÁRUÈ
SENA
CHINDE
GORONGOSA
MARROMEU
MANICA E SOFALA
CHERINGOMA
CHIMOIO
BEIRA
MANICA
BÚZI
MOSSURIZE
SOFALA
SAVE (or SABI) R.
GOVURO
SUL DO SAVE
VILANCULOS
ALTO LIMPOPO
INHAMBANE
L. MARQUES
LIMPOPO R.
MASSINGA
MORRUMBENE
TVL.
GUIJA
HOMOINE
INHAMBANE
INHARRIME
CHIBUTO
ZAVALA
MUCHOPES
MAGUDE
BILENE
GAZA
SABIÈ
MANHIÇA
MARRACUENE
LOURENÇO MARQUES
SWAZI-LAND
MAPUTO
RHONA BROWN

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